# **LUMINAIRES** FLUORESCENT LIGHTING FIXTURE CONNECTED TO NORMAL CIRCUIT AS INDICATED - TYPE AS SPECIFIED IN SCHEDULE. "A" INDICATES TYPE, "3" INDICATES CIRCUIT NUMBER ASSIGNMENT, "a" INDICATES LOCAL SWITCHING CONTROL. CONNECT FIXTURES SO THAT ALL LAMPS ARE CONTROLLED BY \$0 FLUORESCENT LIGHTING FIXTURE CONNECTED TO NORMAL CIRCUIT — TYPE AS SPECIFIED IN SCHEDULE, "A" INDICATES TYPE, "3" INDICATES CIRCUIT NUMBER ASSIGNMENT. <u>CONNECT FIXTURES SO THAT MIDDLE LAMP IS CONTROLLED BY</u> \$0 AND TWO OUTER LAMPS ARE CONTROLLED BY \$6 AS INDICATED BY "a,b" FLUORESCENT LIGHTING FIXTURE CONNECTED TO EMERGENCY CRITICAL CIRCUIT AS INDICATED - TYPE AS SPECIFIED IN SCHEDULE. "A" INDICATES TYPE, "3" INDICATES CIRCUIT NUMBER ASSIGNMENT, "a" INDICATES LOCAL SWITCHING CONTROL. CONNECT FIXTURES SO THAT ALL LAMPS ARE CONTROLLED BY \$0 FLUORESCENT LIGHTING FIXTURE CONNECTED TO EMERGENCY LIFE SAFETY - TYPE AS SPECIFIED IN SCHEDULE, "A" INDICATES TYPE, "3" INDICATES EMERGENCY LIFE SAFETY CIRCUIT NUMBER ASSIGNMENT. INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, CONNECTED TO NORMAL CIRCUIT - TYPE AS SPECIFIED IN SCHEDULE. INCANDESCENT, HID OR COMPACT FLUORESCENT LIGHTING FIXTURE, CONNECT TO EMERGENCY CIRCUIT - TYPE AS SPECIFIED IN SCHEDULE. EXIT SIGN — CONNECT TO EMERGENCY LIFE SAFETY CIRCUIT AHEAD OF LOCAL SWITCHING. TYPE AS SPECIFIED IN EMERGENCY BATTERY LIGHTING FIXTURE - CONNECT TO EMERGENCY LIFE SAFETY CIRCUIT AHEAD OF LOCAL SWITCHING. TYPE AS SPECIFIED IN SCHEDULE. LIGHTING CONTROLS 20A-1P-120/277V WALL SWITCH MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED. SEE NOTES EDC, NDC & MH \$3 20A-3WAY-120/277V WALL SWITCH MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED. SEE NOTES EDC, NDC & MH 120/277V, 8A SINGLE POLE/3-WAY PRESET FLUORESCENT DIMMER COMPATIBLE WITH 1% DIMMING BALLAST. SATIN CHROME COVERPLATE FINISH, ENGRAVING LABEL, SLIDE ADJUSTER - MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED. SEE NOTES EDC, NDC & MH. 3A-24V LOW VOLTAGE MOMENTARY CONTACT, SINGLE POLE, DOUBLE THROW WITH CENTER POSITION REST WALL SWITCH - MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED. SEE NOTES EDC, NDC & MH. OCCUPANCY SENSOR - PROVIDE COMPLETE OCCUPANCY SENSOR SYSTEM INCLUDING SENSOR, POWER SUPPLY AND RELAY UNIT. REFER TO "OCCUPANCY SENSOR PROGRAM SCHEDULE" AND "OCCUPANCY SENSOR SYSTEM SPECIFICATIONS" FOR ADDITIONAL INFORMATION. R - INFRARED TYPE SENSOR D - DUAL TECHNOLOGY TYPE SENSOR # - PROVIDE RELAY WITH NORMALLY OPEN (N.O.) CONTACT(S), # DENOTES THE QUANTITY OF N.O. RELAYS. IF BLANK, PROVIDE (1) N.O. RELAY. H - PROVIDE FORM C RELAY IN RELAY UNIT FOR HVAC SWITCHING EXAMPLES: OS<sub>U2</sub> ULTRASONIC SENSOR WITH (2) N.O. CONTACTS DSDH DUAL TECHNOLOGY SENSOR WITH (1) N.O. CONTACT AND (1) FORM C RELAY POWER DISTRIBUTION EQUIPMENT (FLOOR PLAN VIEW) 208/120V-3ø-4W PANELBOARD UNLESS OTHERWISE NOTED. MOUNT AT 78" AFF TO TOP OF PANEL. 480/277V-3ø-4W PANELBOARD UNLESS OTHERWISE NOTED. MOUNT AT 78" AFF TO TOP OF PANEL. GENERAL PURPOSE, 3 PHASE DRY-TYPE TRANSFORMER - TYPE AS NOTED ON PLANS. FUSED DISCONNECT SWITCH - SIZE AND TYPE AS NOTED. PROVIDE CLASS RK1 FUSES UNLESS OTHERWISE NOTED. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED. GROUNDING BUSBAR WIRING TERMINATIONS ① ②H JUNCTION BOX, CEILING OR WALL MOUNTED, 4" SQ. WITH GROUND LUG, UNLESS OTHERWISE NOTED. COORDINATE MOUNTING LOCATION WITH EQUIPMENT. PS (1) JUNCTION BOX, ABOVE CEILING 120V CONNECTION TO STEP DOWN TRANSFORMER FOR CAMERA CIRCUITS. JUNCTION BOX, ABOVE CEILING FOR CONNECTION TO 120V AUTOMATIC DOOR. ELECTRICAL CONTRACTOR SHALL CONNECT AUTOMATIC DOOR INCLUDING PUSH PAD OPERATORS PER MANUFACTURER'S INSTRUCTIONS TO 120V EMERGENCY LIFE SAFETY CIRCUIT. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL AUTOMATIC DOOR. JUNCTION BOX MOUNTED AT 48" AFF FOR CONNECTION TO AUTOMATIC DOOR PUSH PAD DEVICE. PROVIDE 3/4"C TO DOOR CONTROLLER WITH WIRING PER MANUFACTURER'S REQUIREMENTS. EC SHALL PROVIDE 20A-120V CIRCUIT IN ABOVE FINISHED CEILING MOUNTED JUNCTION BOX FOR VAV TERMINALS. MC SHALL PROVIDE CONTROL TRANSFORMER AND CONTROL WIRING FOR 24VAC VAV TERMINALS. BRANCH CIRCUIT WIRING NO. OF CCTS—— BRANCH CIRCUIT HOME RUN TO PANEL - ARROWHEADS INDICATE CIRCUITS. WIRE INDICATED ARE GREEN IN CONDUIT GROUND, SEPARATE NEUTRALS (SHARED NEUTRALS ARE NOT PERMITTED FOR BRANCH CIRCUITS) AND WIRE SIZE ---THREE HOT LEGS (A DIFFERENT PHASE FOR EACH CIRCUIT) MAXIMUM THREE CIRCUITS PER CONDUIT. (MIN. #12AWG) 3/4" MINIMUM CONDUIT WITH WIRE SIZE INDICATED ON DRAWING ("XX" INDICATES AWG SIZE). ALL POWER WIRING SHALL BE STRANDED COPPER CONDUCTORS WITH THHN/THWN INSULATION. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SAME SIZE AS PHASE AND NEUTRAL, UNLESS OTHERWISE NOTED) FOR EACH CONDUIT. CONDUIT WIRE FILLS SHALL BE IN ACCORDANCE WITH LATEST CONDUCTORS-NATIONAL ELECTRIĆ CODE. NEUTRALS— O CONDUIT UP CONDUIT DOWN **CONSULTANTS:** FREDRICK, FREDRICK & HELLER

# WIRING DEVICES ← 20A-125V, HOSPITAL GRADE, GROUNDED SINGLE RECEPTACLE, MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. 20A-125V, HOSPITAL GRADE, GROUNDED DUPLEX RECEPTACLE, MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. 20A-125V, HOSPITAL GRADE, GROUNDED DUPLEX RECEPTACLE, CEILING MOUNT. TR 😝 20A-125V, HOSPITAL GRADE, GROUNDED TAMPER RESISTANT RECEPTACLE, MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. DOUBLE 20A-125V, HOSPITAL GRADE, GROUNDED DUPLEX RECEPTACLE, MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. 20A-125V, HOSPITAL GRADE, GROUND FAULT INTERRUPTER RECEPTACLE, MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. POWER CONNECTION BOX FOR PRE-WIRED FURNITURE - 4" SQ. JUNCTION BOX MOUNTED AT 18" AFF FOR CONNECTION TO FURNITURE. PROVIDE WIRING AS INDICATED ON PLANS TO PRE-WIRED FURNITURE WITH "4 CIRCUIT 8 WIRES" CONFIGURATION. SEE DETAIL 3 ON DRAWING 1-E9 FOR ADDITIONAL INFORMATION. EC SHALL VERIFY THE NUMBER OF CIRCUITS AND WIRING CONFIGURATION OF PRE-WIRED FURNITURE FURNISHED BY OWNER PRIOR TO ROUGH-IN. OWNER SHALL MAKE FINAL CONNECTION TO FURNITURE. POWER CONNECTION BOX FOR PRE-WIRED FURNITURE (BLANK) - SAME REQUIREMENTS AS ABOVE EXCEPT WITH BLANK COVERPLATE FOR FUTURE USE. TR 😝 SAME DEVICE TYPES AS INDICATED ABOVE EXCEPT CONNECTED TO EMERGENCY CRITICAL CIRCUIT - SEE NOTES EDC & MH. NORMAL DEVICE COLOR — ALL RECEPTACLES AND SWITCHES CONNECTED TO NORMAL POWER CIRCUITS SHALL BE IVORY WITH STAINLESS STEEL FACEPLATES — EACH PLATE SHALL BE MACHINE ENGRAVED WITH THE PANEL AND CIRCUIT NUMBER OF THE POWER SOURCE THAT SUPPLIES EACH DEVICE. EMERGENCY DEVICE COLOR — ALL RECEPTACLES AND SWITCHES CONNECTED TO EMERGENCY POWER CIRCUITS SHALL BE RED WITH STAINLESS STEEL FACEPLATES. EACH EMERGENCY PLATE SHALL BE MACHINE ENGRAVED WITH THE PANEL AND CIRCUIT NUMBER OF THE POWER SOURCE THAT SUPPLIES EACH DEVICE. THE ELECTRICAL CONTRACTOR SHALL CLOSELY REVIEW ALL PLANS TO DETERMINE ALL EMERGENCY CIRCUITS AND SHALL PROVIDE ALL RED DEVICES AND AND ENGRAVED PLATES AS REQUIRED - NO EXCEPTIONS. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. MOUNTING HEIGHTS ARE TO THE CENTER OF DEVICES UNLESS OTHERWISE NOTED. LOW VOLTAGE SYSTEM LEGEND PUBLIC ADDRESS SPEAKER - CEILING MOUNTED. "a" INDICATES LOCAL PAGING SYSTEM SPEAKER VOLUME CONTROL. CONNECT SPEAKERS SO THAT VOLUME IS CONTROLLED BY PUBLIC ADDRESS SYSTEM VOLUME CONTROL WITH BYPASS RELAY. "a" INDICATES LOCAL PAGING SYSTEM SPEAKER VOLUME INTERCOM STATION. PROVIDE 2-GANG BACKBOX WITH BLANK COVERPLATE FOR DESK MOUNTED OR WALL MOUNTED INTERCOM STATION AT 48" AFF UNLESS OTHERWISE NOTED. **LOW VOLTAGE SYSTEM NOTES:** L1. REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL INFORMATION L2. REFER TO SPECIFICATIONS ADDITIONAL REQUIREMENTS. L3. INTERCOM STATIONS SYSTEM EQUIPMENT AND WIRING SHALL BE PROVIDED BY VAMC. CONTRACTOR SHALL VERIFY ALL BACKBOX SIZES WITH VA COTR AND MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN. L4. MOUNT DEVICES AT MOUNTING HEIGHTS LISTED ABOVE UNLESS OTHERWISE NOTED ON THE FLOOR PLANS. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS. TELECOMMUNICATIONS LEGEND TELECOMMUNICATIONS OUTLET "TCO" - MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS OUTLET DETAILS ON SUBSEQUENT DRAWING FOR REQUIREMENTS. TERMINATE CABLES TO TELECOMMUNICATIONS RACK IN A159. PROVIDE ADDITIONAL PATCH PANELS AS NEEDED. F TELECOMMUNICATIONS OUTLET "TCO" - MOUNTED IN FURNITURE UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS OUTLET DETAILS ON SUBSEQUENT DRAWING FOR REQUIREMENTS. W ▶ TELEPHONE OUTLET— MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED WIRELESS ACCESS OUTLET - MOUNTED ABOVE FINISHED CEILING. 2D TELECOMMUNICATIONS OUTLET "TCO" IN HBPC AREA — MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS OUTLET DETAILS ON SUBSEQUENT DRAWING FOR REQUIREMENTS. CABLES SHALL BE RUN TO ABOVE RACK LOCATION WITH 20'-0" OF SERVICE SLACK. '2D' - INDICATES QUANTITY OF DATA JACKS AND CABLES. PROVIDE INDICATED QUANTITY OF CAT 6 CABLES FROM OUTLET LOCATION TO TELECOM RACK LOCATION AS SHOWN ON PLANS. 18"W x 3"D (MINIMUM SIZE) CABLE TRAY WIRE MANAGEMENT SYSTEM. MOUNTED ABOVE ACCESSIBLE CEILING. COORDINATE LOCATION WITH OTHER TRADES. MAINTAIN 6" WORKING CLEARANCE ABOVE AND BELOW CABLE TRAY AT ALL LOCATIONS.

TELECOMMUNICATIONS CONNECTION BOX FOR PRE-WIRED FURNITURE - 4" SQ. JUNCTION BOX MOUNTED AT 18" AFF FOR CONNECTION TO FURNITURE. EC SHALL VERIFY THE NUMBER OF CAT6 CABLES REQUIRED OF PRE-WIRED FURNITURE FURNISHED BY OWNER PRIOR TO ROUGH-IN. OWNER SHALL MAKE FINAL CONNECTION TO FURNITURE.

TELECOMMUNICATIONS CONNECTION BOX FOR PRE-WIRED FURNITURE (BLANK) - 4" SQ. JUNCTION BOX MOUNTED AT 18" AFF FOR CONNECTION TO FURNITURE. PROVIDE (8) CAT6 CABLES

**TELECOMMUNICATIONS SYSTEM NOTES:** 

T1. REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL INFORMATION.

T2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

T3. CONTRACTOR SHALL PROVIDE DEVICES, CABLING, TESTING, AND TERMINATIONS. TEST COMPLETE INSTALLATION IN ACCORDANCE WITH VA STANDARDS.

# MOTOR AND MOTOR CONTROLLERS (FLOOR PLAN VIEW)

120V-10 OR 277V-10 (AS REQUIRED) LOCKABLE MANUAL SWITCH (NO THERMAL OVERLOADS).

### FIRE ALARM SYSTEM LEGEND

FIRE ALARM CONTROL PANEL (EXISTING NOTIFIER SYSTEM).

FIRE ALARM REMOTE ANNUNCIATOR — FLUSH MOUNT AT 5'-0" AFF TO TOP OF DEVICE.

FIRE ALARM POWER SUPPLY EXTENDER - CONNECT TO 120V LIFE SAFETY CIRCUIT. SURFACE MOUNT AT 5'-0" AFF TO TOP OF DEVICE.

FIRE ALARM TERMINAL CABINET.

MANUAL FIRE ALARM MANUAL PULL STATION - MOUNT AT 48" AFF TO CENTERLINE OF DEVICE.

FIRE ALARM AUDIBLE VISUAL SIGNAL DEVICE (ADA TYPE) MOUNTED 80" AFF UNLESS NOTED. WHITE HOUSING WITH RED SUFFIX DENOTES:

> D - FLASHING DOME LIGHT C - COMBINATION SPEAKER WITH FLASHING DOME LIGHT

SMOKE DETECTOR - ADDRESSABLE INTELLIGENT PHOTOELECTRIC TYPE - CEILING MOUNTED.

SMOKE DETECTOR WITH RELAY BASE FOR ELEVATOR CONTROLS - ADDRESSABLE INTELLIGENT PHOTOELECTRIC TYPE -

DUCT DETECTOR - ADDRESSABLE INTELLIGENT PHOTOELECTRIC DETECTOR, SAMPLING TUBES AND PROGRAMMABLE RELAY BASE. PROVIDE DUCT DETECTOR TEST/RESET SWITCH \$RT WITH REMOTE INDICATOR LAMP FOR EACH DUCT DETECTOR.

MAGNETIC TYPE DOOR HOLDER OUTLET. 24VDC

FIRE ALARM SYSTEM NOTES:

S - SPEAKER

PROVIDE A 2-GANG MINIMUM SIZE BACKBOX FOR ALL OF THE ABOVE FIRE ALARM DEVICES. ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE INSTALLED IN 3/4" MINIMUM SIZE COMPLETE CONDUIT SYSTEM WITH COLOR CODED WIRING AS INDICATED ON SHOP DRAWINGS - MAINTAIN HOSPITAL COLOR CODING. ALL NETWORK AND NETWORK CABLES SHALL BE "COMMUNICATION GRADE" TYPE CABLE. FURNISH, INSTALL AND CONNECT ALL FIRE ALARM DEVICES IN ACCORDANCE WITH WIRING DIAGRAMS PREPARED BY SYSTEM VENDOR. EXISTING FIRE ALARM SYSTEM BY NOTIFIER. REFER TO SPECIFICATIONS SECTION 283100 FOR ELECTRICAL REQUIREMENTS.

#### SECURITY SYSTEM LEGEND

LENEL SECURITY CONTROL PANEL.

SERVICE SLACK AT RACK LOCATION.

MOUNT DOME FLUSH WITH CEILING.

CARD READER (HID #6125CKN0007G30L OR EQUAL) - OPERATES MAGNETIC LOCKS, ELECTRIC STRIKES, AUTOMATIC DOOR, ETC. CONTRACTOR SHALL PROVIDE 2-GANG BOX WITH STAINLESS STEEL BLANK COVERPLATE MOUNTED AT 48" AFF. FURNISHED AND CONNECTED BY CONTRACTOR.

ELECTRIC HINGE - 12/24VDC, INCLUDES REQUEST-TO-EXIT OUTPUT CONTACTS, DOOR POSITION SWITCH, AND 4'-0" CABLE. FAILSECURE OPERATING MODE. FURNISHED AND CONNECTED BY CONTRACTOR.

DOOR CONTACTS - MONITORS DOOR POSITION. RECESS MOUNTED AT TOP OF DOOR AND DOOR FRAME. CONTRACTOR SHALL PROVIDE AND CONNECT. CONTRACTOR SHALL FURNISH DOOR PREPARED TO RECEIVE DOOR CONTACTS.

MAGNETIC LOCK - 12/24VDC, MOUNTED AT TOP OF DOOR PER MANUFACTURER'S REQUIREMENTS. FURNISHED AND CONNECTED

REQUEST-TO-EXIT - MOTION SENSOR DEVICE OPERATES MAGNETIC LOCKS, ELECTRIC STRIKES, AUTOMATIC DOOR, ETC. MOUNTED AT TOP OF DOOR PER MANUFACTURER'S REQUIREMENTS. FURNISHED AND CONNECTED BY CONTRACTOR.

SECURITY SYSTEM - DURESS-PANIC ALARM PUSHBUTTON - MOUNTED TO UNDERSIDE OF DESK/COUNTER, VERIFY EXACT

NETWORK CAMERA ROUGH-IN - PROVIDE RG59 CABLE FROM CAMERA LOCATION TO TELECOM RACK LOCATION AS SHOWN ON PLANS. CLEARLY LABEL ALL BOXES AND CABLES. PROVIDE 5'-0" COILED SLACK AT CAMERA LOCATION AND 20'-0"

LOCATION WITH VA POLICE. REFER TO SPECIFICATIONS SECTION 282600. FURNISHED AND CONNECTED BY CONTRACTOR.

 $igotimes_{360^{\circ}}$  dome 360° network ip camera — (4) integrated fixed cameras — ceiling mounted, wide angle, network—enabled, 1280x800 (1MP) MIN. RESOLUTION PER SENSOR, H.264 VIDEO COMPRESSION, 30 FRAMES PER SECOND, TAMPERING ALARM, POWER OVER ETHERNET, PROGRESSIVE SCAN, TAMPER RESISTANT CASING. PROVIDE DROP CEILING MOUNTING ACCESSORIES TO

DOME NETWORK IP CAMERA - FIXED DOME CAMERA - CEILING MOUNTED, WIDE ANGLE, NETWORK-ENABLED, 1280x800 (1MP) MIN. RESOLUTION PER SENSOR, H.264 VIDEO COMPRESSION, 30 FRAMES PER SECOND, TAMPERING ALARM, POWER OVER ETHERNET, PROGRESSIVE SCAN, TAMPER RESISTANT CASING. PROVIDE DROP CEILING MOUNTING ACCESSORIES TO MOUNT DOME FLUSH WITH CEILING.

ACCESS CONTROLLED DOOR TYPE 1 - CONTRACTOR SHALL PROVIDE CARD READER, CONNECT ELECTRIC HINGE, PROVIDE DOOR CONTACTS. REFER TO "ACCESS CONTROLLED DOOR TYPE 1 DETAIL" FOR TYPICAL INSTALLATION REQUIREMENTS. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION REQUIREMENTS FOR SPECIFIC DOOR AND SECURITY REQUIREMENTS WITH LENEL PRIOR TO ROUGH-IN.

**SECURITY SYSTEM NOTES:** 

S1. PROVIDE MINIMUM SIZE BACKBOX AS REQUIRED FOR ALL OF THE ABOVE SECURITY DEVICES AND INSTALL IN 1/2"C MINIMUM COMPLETE CONDUIT SYSTEM TO JUNCTION BOX ABOVE FINISHED CEILING. REFER TO THE "ACCESS-CONTROLLED DOOR DETAIL" ON THE TECHNOLOGY DETAILS DRAWING FOR ADDITIONAL INFORMATION.

S2. REFER TO SPECIFICATIONS DIVISION 28 FOR FURTHER DETAILS REGARDING THE SECURITY SYSTEM.

S3. MOUNT DEVICES AT MOUNTING HEIGHTS LISTED ABOVE UNLESS OTHERWISE NOTED ON THE FLOOR PLANS. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS.

S4. SECURITY SYSTEM EQUIPMENT AND WIRING SHALL BE PROVIDED BY CONTRACTOR, UNLESS OTHERWISE NOTED.

S5. CONTRACTOR SHALL VERIFY ALL BACKBOX SIZES WITH VA COTR AND MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO

S6. FURNISH, INSTALL AND CONNECT ALL SECURITY DEVICES IN ACCORDANCE WITH LENEL SYSTEM PROVIDER. PROVIDE ALL ADDITIONAL LENEL COMPONENTS AS NECESSARY FOR A COMPLETE SYSTEM. SUBMIT ALL LENEL DEVICES WITH SHOP DRAWINGS

**FULLY SPRINKLERED** 



4-27-12

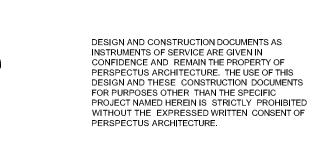
Date

ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL. (440) 546-9696

FAX: (440) 546-9699







LECTRICAL LEGEND - HEET 1	SOCIAL V HBPC OF RENOVA		D	541-12-104  Building Number  1
oved: Project Director	Location VAMC - V	WADE PAI	RK	Drawing Number
	Date 04-27-12	Checked <b>MPL</b>	Drawn <b>TWM</b>	<b>1-E1</b>

Management Department of Veterans Affairs

Office of

**Facilities** 

VA FORM 08-6231, OCT 1978

**Revisions:** 

Final Bid Set Documents

one eighth inch = one foot

0 4 8 16

16

# Final Bid Set Documents Revisions:

# GENERAL ELECTRICAL INSTALLATION NOTES:

- 1. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
- 2. ALL NEW WALL MOUNTED ELECTRICAL DEVICES ARE TO BE INSTALLED FLUSH IN WALL UNLESS OTHERWISE NOTED. ALL ELECTRICAL CONDUIT SHALL BE CONCEALED BEHIND FINISHED WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED. THE COST TO CUT AND PATCH WALLS SHALL BE THE RESPONSIBILITY OF THE TRADE REQUIRING THE CUTTING.
- 3. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS REQUIRED FOR ELECTRICAL WORK. CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES.
- 4. PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW OR RELOCATED WALL OR CEILING MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS.
- 5. COORDINATE ALL SHUT-DOWNS OF EXISTING ELECTRICAL SYSTEMS WITH OWNER A MINIMUM OF FOURTEEN (14) WORKING DAYS IN ADVANCE. ALL SHUT-DOWNS SHALL OCCUR DURING WEEKENDS OR BETWEEN 8:00PM AND 7:00AM ON WEEKDAYS ("OFF-HOURS").
- INCLUDE ALL PREMIUM TIME CHARGES IN BID. 6. ALL NOISE GENERATING OPERATIONS, INCLUDING CUTTING OF CEILINGS, WALLS AND FLOORS, CORING, DRILLING, ETC. SHALL BE
- CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT COMPLETE PER MANUFACTURER'S WIRING DIAGRAMS AND INSTRUCTIONS. COORDINATE WITH MECHANICAL CONTRACTOR AND VERIFY LOCATION, VOLTAGE, AMPS, NO. OF WIRES, AND PROTECTION REQUIREMENTS PRIOR TO ROUGH-IN. CONTACT ENGINEER WITH ANY DISCREPANCIES FROM DESIGN DRAWINGS.

SCHEDULED DURING WEEKENDS OR BETWEEN 8:00PM AND 7:00AM ON WEEKDAYS ("OFF-HOURS"). INCLUDE ALL PREMIUM TIME CHARGES

- 8. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO MECHANICAL EQUIPMENT OR OTHER EQUIPMENT WHICH MAY PROPAGATE VIBRATION.
- 9. ALL FLUORESCENT LAMPS THAT WILL NOT BE REUSED SHALL BE DISPOSED OF IN ACCORDANCE WITH EPA STANDARDS, AND WRITTEN EVIDENCE OF PROPER DISPOSAL SHALL BE FURNISHED TO THE OWNER.
- 10. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE PHASING REQUIREMENTS OF THE PROJECT. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE BID SUBMITTAL.
- 11. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING TO ADEQUATELY LIGHT ALL CONSTRUCTION AREAS, TEMPORARILY PARTITIONED AREAS, AND EXIT CORRIDORS MAINTAINED DURING CONSTRUCTION.
- 12. <u>DEFINITION:</u> "PROVIDE" FURNISH, INSTALL AND CONNECT COMPLETE.
- 13. PROJECT AND PHASING SCOPE LINES INDICATE WHERE GENERAL CONSTRUCTION BOUNDERIES OCCUR. ELECTRICAL WORK AND UTILITY TIE-INS MAY OCCUR OUTSIDE OF SCOPE LINES.

## PROJECT COORDINATION NOTES:

- A. THIS PROJECT CONSISTS OF MULTIPLE TRADES OF WORK PERFORMED WITHIN AN EXISTING BUILDING, ALL OF WHICH ALLOWS VERY LITTLE PERMISSIBLE RANGE OF VARIATION. THE CONTRACTOR SHALL TAKE CAREFUL CONSIDERATION WITH THE COORDINATION AND INSTALLATION OF ANY NEW SYSTEMS WHILE ALSO ACCOMMODATING ANY EXISTING SYSTEMS TO REMAIN.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES ASSOCIATED WITH THIS PROJECT AND ISSUING COORDINATION PLANS PRIOR TO COMMENCEMENT OF EACH PHASE OF CONSTRUCTION.
- C. THE COORDINATION DRAWINGS SHALL ILLUSTRATE ALL SYSTEMS IN PLACE. NO EXCEPTIONS! THE CONTRACTOR SHALL SHOW ALL NECESSARY OFFSETS, TRANSITIONS, ETC. AS REQUIRED IN ORDER TO ACCOMMODATE CONDITIONS IDENTIFIED IN THE FIELD.
- D. IF CONFLICTS ARE IDENTIFIED DURING THE DEVELOPMENT OF COORDINATION PLANS, THE CONTRACTOR SHALL NOTIFY THE VA COTR, ARCHITECT, AND/OR ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THE
- E. A COMPLETED SET OF COORDINATION PLANS ISSUED FOR REVIEW SHALL CONFIRM THAT THE CONTRACTOR FULLY UNDERSTANDS THE PROJECT CONSTRAINTS AND ALL KNOWN CONFLICTS HAVE BEEN ADDRESSED.

# GENERAL LEGEND

MECHANICAL EQUIPMENT IDENTIFIER

CODED NOTE - "1" INDICATES NOTE NUMBER.



DETAIL REFERENCE - "1" INDICATES DETAIL NUMBER, "1-E01" INDICATED DRAWINGS NUMBER.



\_\_\_ COLUMN GRID



REVISION REFERENCE NUMBER

# WALL TYPE LEGEND



INDICATES EXISTING CONSTRUCTION INDICATES DEMOLITION

**CONSULTANTS:** 

INDICATES NEW CONSTRUCTION

#### **ABBREVIATIONS**

- ABOVE COUNTER AT 9" UNLESS OTHERWISE NOTED
- AMP FRAME
- ABOVE FINISHED CEILING
- ABOVE FINISHED FLOOR
- AUTOMATIC TRANSFER SWITCH
- BELOW COUNTER AT 18"AFF UNLESS OTHERWISE NOTED
- BELOW FINISHED CEILING
- CEILING MOUNTED
- CONTRACTING OFFICER/TECHICAL REPRESENTATIVE
- DOOR BELL
- ELECTRICAL CONTRACTOR
- EQUIPMENT GROUND
- END OF LINE
- EWC ELECTRIC WATER COOLER

GENERAL CONTRACTOR

- GROUND FAULT CIRCUIT INTERRUPTER
- ISOLATED GROUND
- MECHANICAL CONTRACTOR
- MAIN CIRCUIT BREAKER
- MAIN LUGS ONLY
- NATIONAL ELECTRICAL CODE
- NOT FUSED
- NOT IN CONTRACT
- OFE OWNER FURNISHED EQUIPMENT
- TELECOMMUNICATIONS CONTRACTOR
- TEMPERATURE CONTROLS CONTRACTOR
- TELEVISION MOUNT TV OUTLET AND RECEPTACLE AT SAME HEIGHT ADJACENT TO ONE ANOTHER.
- VARIABLE SPEED MOTOR CONTROLLER
- WEATHERPROOF ENCLOSURE NEMA 4 TYPE
- EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, CONDUIT, ETC. TO REMAIN
- INDICATES EXISTING OUTLET, LIGHTING FIXTURE, CONDUIT, ETC TO BE REMOVED. PROVIDE BLANK COVER FOR OUTLET AND MAINTAIN CIRCUIT
- NEW LOCATION OF EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, ETC.
- EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, ETC. TO BE REPLACED WITH NEW OF SPECIFIED TYPE
- EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, CONDUIT, ETC. TO BE REMOVED COMPLETE - MAINTAIN CIRCUIT CONTINUITY TO ADJACENT OUTLETS,
- EXTEND CONDUIT AND WIRING AS REQUIRED. EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, ETC. - TO BE REMOVED AND
- REINSTALLED AT NEW LOCATION EXTEND CONDUIT AND WIRING AS
- VAMC VETERANS AFFAIRS MEDICAL CENTER

# GENERAL TECHNOLOGY INSTALLATION NOTES:

- 1. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
- ALL NEW WALL MOUNTED ELECTRICAL DEVICES ARE TO BE INSTALLED FLUSH IN WALL UNLESS OTHERWISE NOTED. ALL ELECTRICAL CONDUIT SHALL BE CONCEALED BEHIND FINISHED WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED. THE COST TO CUT AND PATCH WALLS SHALL BE THE RESPONSIBILITY OF THE TRADE REQUIRING THE CUTTING.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS REQUIRED FOR ELECTRICAL WORK. CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES.
- PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW OR RELOCATED WALL OR CEILING MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS.
- 5. COORDINATE ALL SHUT-DOWNS OF EXISTING COMMUNICATIONS SYSTEMS WITH OWNER A MINIMUM OF FOURTEEN (14) WORKING DAYS IN ADVANCE. ALL SHUT-DOWNS SHALL OCCUR DURING WEEKENDS OR BETWEEN 8:00PM AND 7:00AM ON WEEKDAYS ("OFF-HOURS"). INCLUDE ALL PREMIUM TIME CHARGES IN BID.
- 6. 6.ALL NOISE GENERATING OPERATIONS, INCLUDING CUTTING OF CEILINGS, WALLS AND FLOORS, CORING, DRILLING, ETC. SHALL BE SCHEDULED DURING WEEKENDS OR BETWEEN 8:00PM AND 7:00AM ON WEEKDAYS ("OFF-HOURS"). INCLUDE ALL PREMIUM TIME CHARGES
- ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE PHASING REQUIREMENTS OF THE PROJECT. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE BID SUBMITTAL.
- 8. PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW OR RELOCATED WALL OR CEILING MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS.
- <u>DEFINITION:</u> "PROVIDE" FURNISH, INSTALL AND CONNECT COMPLETE.
- 10. PROJECT AND PHASING SCOPE LINES INDICATE WHERE GENERAL CONSTRUCTION BOUNDERIES OCCUR. ELECTRICAL WORK AND UTILITY TIE-INS MAY OCCUR OUTSIDE OF SCOPE LINES.

# FULLY SPRINKLERED

13212 Shaker Square Suite 204 Cleveland, Ohio 44120 P. 216.752.1800 F.216.752.3833

DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF DESIGN AND THESE CONSTRUCTION DOCUMENTS PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

Drawing Title roject Title roject Number **SOCIAL WORK AND ELECTRICAL LEGEND -**541-12-104 **HBPC OFFICE** SHEET 2 **Building Number** RENOVATION Approved: Project Director Drawing Number **VAMC - WADE PARK** 1-E2 Checked 04-27-12 MPL TWM Dwg.

**Facilities** Management Department of Veterans Affairs

Office of

VA FORM 08-6231, OCT 1978

4-27-12

Date

FREDRICK, FREDRICK & HELLER

ENGINEERS, INC.

BROADVIEW HTS., OHIO 44147

TEL. (440) 546-9696

FAX: (440) 546-9699

672 EAST ROYALTON ROAD

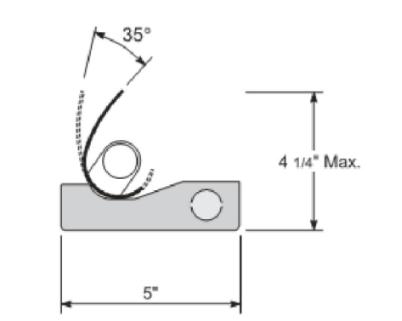
**ARCHITECT:** 

LIGHTING FIXTURE SCHEDULE BALLAST/DRIVER INFORMATION LAMP INFORMATION MOUNTING DESCRIPTION QUANTITY WATTS TYPE COLOR TEMP. QUANTITY TYPE VOLTAGE FLUORESCENT LIGHTING FIXTURE, 2' x 2' x 3-3/4" MAX HEIGHT RECESSED, DELIVERS AT LEAST 72% LUMINAIRE EFFICIENCY, FULLY LUMINOUS HOUSING, ROUND EXTRUDED CENTER GRID 17W | LF BALLAST | 120-277V | -OPTIC WITH LINEAR PRISMATIC FULLY FROSTED ACRYLIC LENS, LENSES SECURED TO HOUSING VIA INJECTION MOLDED INSERTS FOR EASY LAMP ACCESS, FUSING. FLUORESCENT LIGHTING FIXTURE, 2' x 2' x 3-3/4" MAX HEIGHT RECESSED, DELIVERS AT LEAST 72% LUMINAIRE EFFICIENCY, FULLY LUMINOUS HOUSING, ROUND EXTRUDED CENTER | LF BALLAST | 120-277V | -GRID 17W T8 3500°K OPTIC WITH LINEAR PRISMATIC FULLY FROSTED ACRYLIC LENS, LENSES SECURED TO HOUSING VIA INJECTION MOLDED INSERTS FOR EASY LAMP ACCESS, FUSING. LED LIGHTING FIXTURE - 6" DIA. X 6-5/8" MAX HEIGHT WALL-WASH RECESSED 27W MAX DOWNLIGHT, 1500 MINIMUM LUMENS, SEMI-SPECULAR CLEAR REFLECTOR AND WHITE GRID |LED DRIVER | 277V 3500°K SYSTEM POLYMER TRIM, LED LIGHT BAR AND DRIVER ACCESSIBLE FROM BELOW THROUGH FIXTURE, CONVEX TRANSITIONAL LENS. LED LIGHTING FIXTURE - 6" DIA. X 6-5/8" MAX HEIGHT RECESSED DOWNLIGHT, 1500 MINIMUM LUMENS, SEMI-SPECULAR CLEAR REFLECTOR AND WHITE POLYMER TRIM, LED 27W MAX **FLANGE** LED DRIVER 277V LIGHT BAR AND DRIVER ACCESSIBLE FROM BELOW THROUGH FIXTURE, CONVEX SYSTEM TRANSITIONAL LENS. MARIO CONTRACT LTG: CC3829 COMPACT FLUORESCENT LIGHTING FIXTURE - 6-1/4" DIA. X 9-3/8" MAX HEIGHT SURFACE 18W 3500°K LF BALLAST | 120-277V SURFACE MOUNTED ROUND GLASS DECORATIVE FIXTURE. OR EQUAL TECH LIGHTING: TRACK LIGHTING - WITH PRE-BENT S-CURVE DECORATIVE TRACK WITH 6" STAND-OFFS, MONORAIL 700MOBHSC60 SURFACE LOW VOLTAGE 120V LED MR16 REMOTE 300 WATT ELECTRONIC LOW VOLTAGE TRANSFORMER COMPATIBLE WITH (4) "SPOT" LED MR16 FIXTURE HEADS, SATIN FINISH. 700MOP4C02 (2)700MOS06 (4)700MOSPT604S OR EQUAL FLUORESCENT LIGHTING FIXTURE, 2' x 4' x 3-3/4" MAX HEIGHT RECESSED TROFFER, ACRYLIC K-19 LENS (.156" THICKNESS), FLAT WHITE STEEL DOOR FRAME, DIE FORMED GRID | LF BALLAST | 120-277V | 28W 3500°K STEEL RIGID HOUSING, AUXILIARY FIXTURE END SUSPENSION POINTS, FUSING, PAINT AFTER FABRICATION. FLUORESCENT COVE SYSTEM - 96" LENGTH, 35 DEGREE ADJUSTABLE ASYMMETRIC REFLECTOR, | LF BALLAST | 120-277V | -SEE ARCH 28W DIE CAST END CAPS, TANDEM MOUNTED. SEE COVE FIXTURE DETAIL BELOW. DETAIL F1 FLUORESCENT COVE SYSTEM - 72" LENGTH, 35 DEGREE ADJUSTABLE ASYMMETRIC REFLECTOR, DIE CAST END CAPS, TANDEM MOUNTED. SEE COVE FIXTURE DETAIL BELOW. SEE ARCH 22W T8 3500°K | LF BALLAST | 120-277V | -DETAIL

# GENERAL LIGHTING INSTALLATION NOTES:

- L1. REFER TO ELECTRICAL SPECIFICATIONS FOR FLUORESCENT LAMP COLOR AND BALLAST TYPE.
- L2. CONTRACTOR SHALL COORDINATE LIGHTING FIXTURE TYPE (GRID OR FLANGE) WITH ACTUAL CEILING TYPE PRIOR TO ORDERING FIXTURES. CONTACT ENGINEER IF QUESTIONS SHOULD ARISE CONCERNING CEILING TYPES.
- L3. CONTRACTOR SHALL VERIFY ALL BALLAST QUANTITIES WITH SWITCHING SHOWN ON PLANS PRIOR TO ORDERING FIXTURES. ADJUST BALLAST QUANTITIES AS REQUIRED TO MATCH
- L4. VERIFY LIGHTING CIRCUIT VOLTAGE (277V-10 OR 120V-10) PRIOR TO ORDERING LIGHTING FIXTURES OR STARTING ROUGH-IN OF BRANCH CIRCUITS. IMMEDIATELY CONTACT ENGINEER WITH ANY DISCREPANCIES. CONTRACTOR IS RESPONSIBLE FOR ORDERING THE PROPER VOLTAGE FOR LIGHTING FIXTURES, REGARDLESS OF VOLTAGE SHOWN ON LIGHTING FIXTURE
- L5. CONTRACTOR SHALL VERIFY ALL FIXTURES TO BE CONTROLLED BY DIMMER SWITCHES AS SHOWN ON PLANS PRIOR TO ORDERING FIXTURES. PROVIDE ARCHITECTURAL DIMMING BALLASTS (FLUORESCENT) OR DRIVER (LED) WITH DIMMING RANGE FROM 100% DOWN TO 10% IN ALL DIMMED FIXTURES, AND COMPATIBLE DIMMER CONTROLS WHERE DIMMING IS INDICATED
- L6. PROVIDE 100 HOURS BURN-IN TIME AT FULL BRIGHTNESS FOR ALL LAMPS IN DIMMED FLUORESCENT LIGHTING FIXTURES.
- L7. PROVIDE DISCONNECTING MEANS FOR ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE. THE DISCONNECTING MEANS SHALL BE ACCESSIBLE AND SHALL SIMULTANEOUSLY BREAK ALL THE SUPPLY CONDUCTORS TO THE BALLAST (INCLUDING THE GROUNDED CONDUCTOR).
- L8. REFER TO ELECTRICAL SPECIFICATIONS FOR LED COLOR TEMPERATURE AND DRIVER TYPE.
- L9. LINEAR FLUORESCENT LAMPS SHALL HAVE A CRI OF 82 OR GREATER.
- L10. COMPACT FLUORESCENT LAMPS SHALL HAVE A CRI OF 80 OR GREATER.

L11. LED FIXTURES SHOULD HAVE A MINIMUM OF A 5 YEAR WARRANTY.



COVE FIXTURE DETAIL

LF BALLAST - LINEAR FLUORESCENT LAMP BALLAST

CF BALLAST - COMPACT FLUORESCENT LAMP BALLAST

DIMMING LF BALLAST - DIMMING LINEAR FLUORESCENT LAMP BALLAST

DIMMING CF BALLAST - DIMMING COMPACT FLUORESCENT LAMP BALLAST

FULLY SPRINKLERED **ARCHITECT: CONSULTANTS:** 

BALLAST/DRIVER ABBREVIATIONS

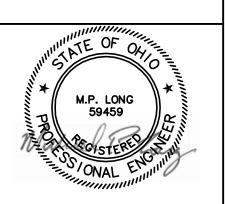
LED DRIVER - LIGHT-EMITTING DIODE DRIVER WITH 100% DOWN TO 10% LOW-VOLTAGE DIMMING

DIMMING LED DRIVER - DIMMING LIGHT-EMITTING DIODE DRIVER WITH 100% DOWN TO 1% DIMMING

120-277V - MULTI-VOLTAGE BALLAST DETECTS INCOMING VOLTAGE AND ADAPTS AUTOMATICALLY

**Final Bid Set Documents** 4-27-12 Date Revisions:

FREDRICK, FREDRICK & HELLER
ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
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FAX: (440) 546-9699



Persp	ectus erchitecture
13212 Shaker Square Suite	
P. 216.752.1800	F.216.752.3833

DESIGN AND CONSTRUCTION DOCUMENTS AS
INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF
PERSPECTUS ARCHITECTURE. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS
FOR PURPOSES OTHER THAN THE SPECIFIC
PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

Drawing Title  LIGHTING FIXTURE SCHEDULE	-	SOCIAL WORK AND				
	HBPC OFFICE RENOVATION			Building Number  1		
Approved: Project Director	Location <b>VAMC - V</b>	Location VAMC - WADE PARK				
	Date 04-27-12	Checked MPL	Drawn <b>TWM</b>	<b>1-E3</b> Dwg. of		

Office of **Facilities** Management

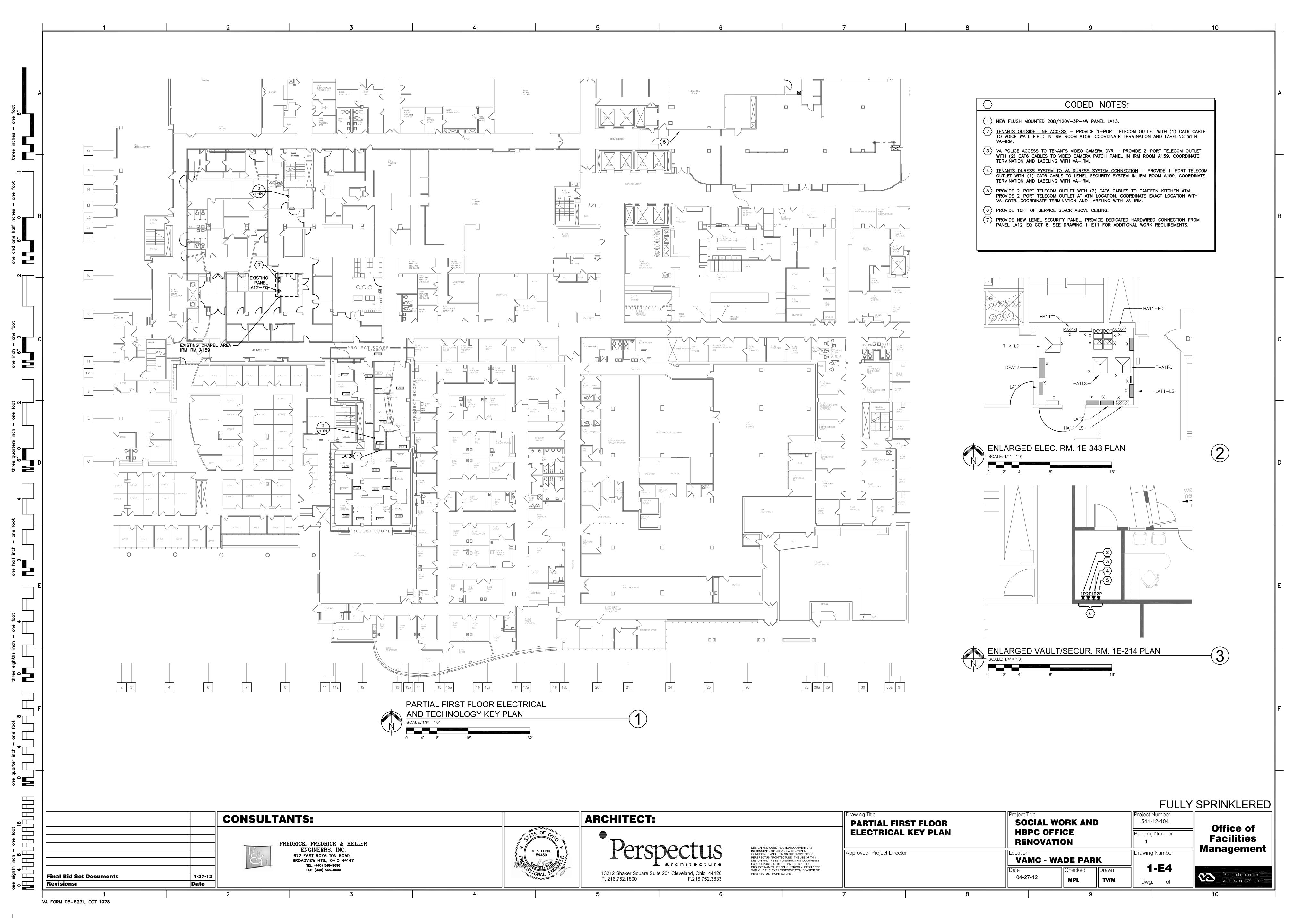
Department of Veterans Affairs

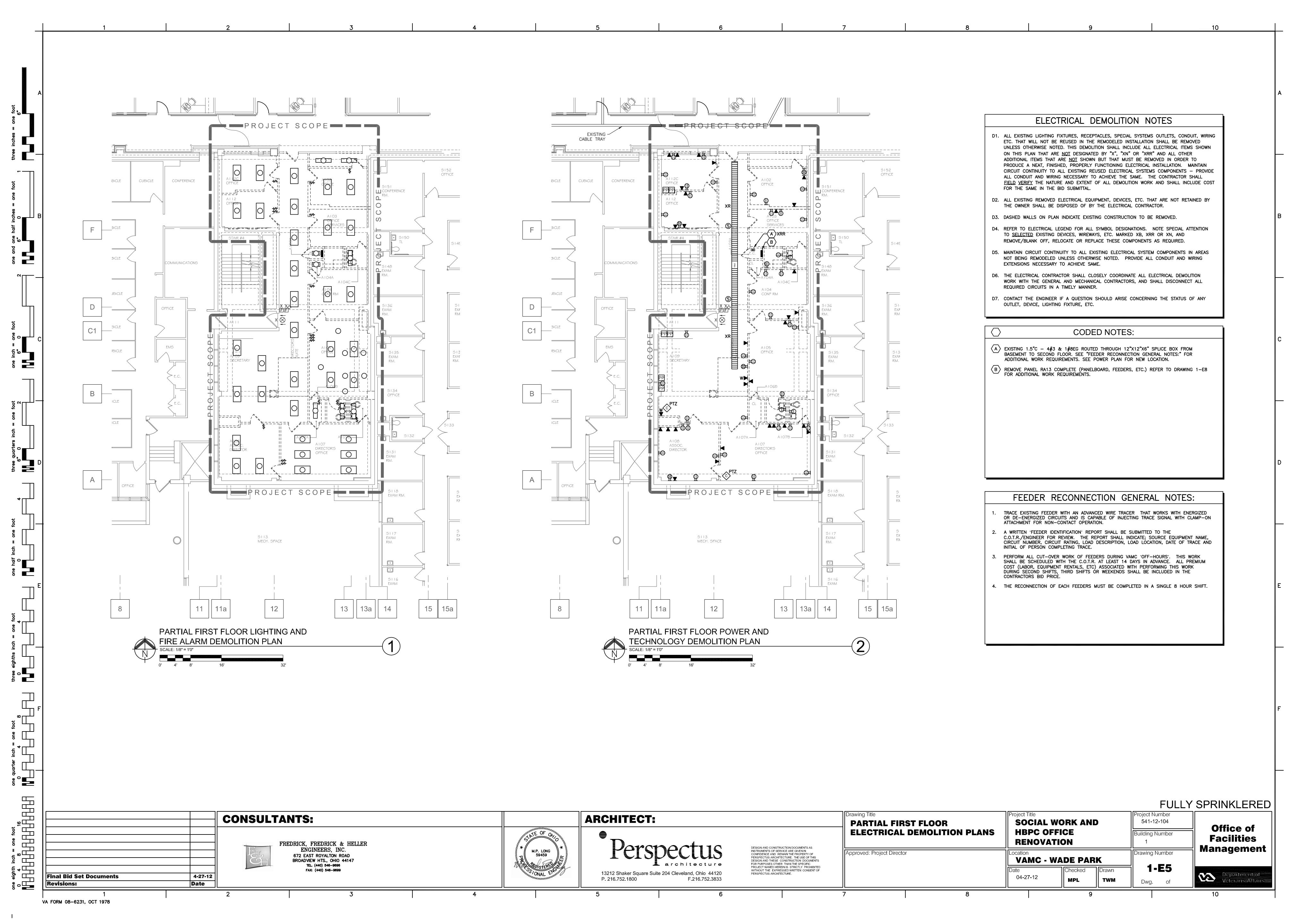
VA FORM 08-6231, OCT 1978

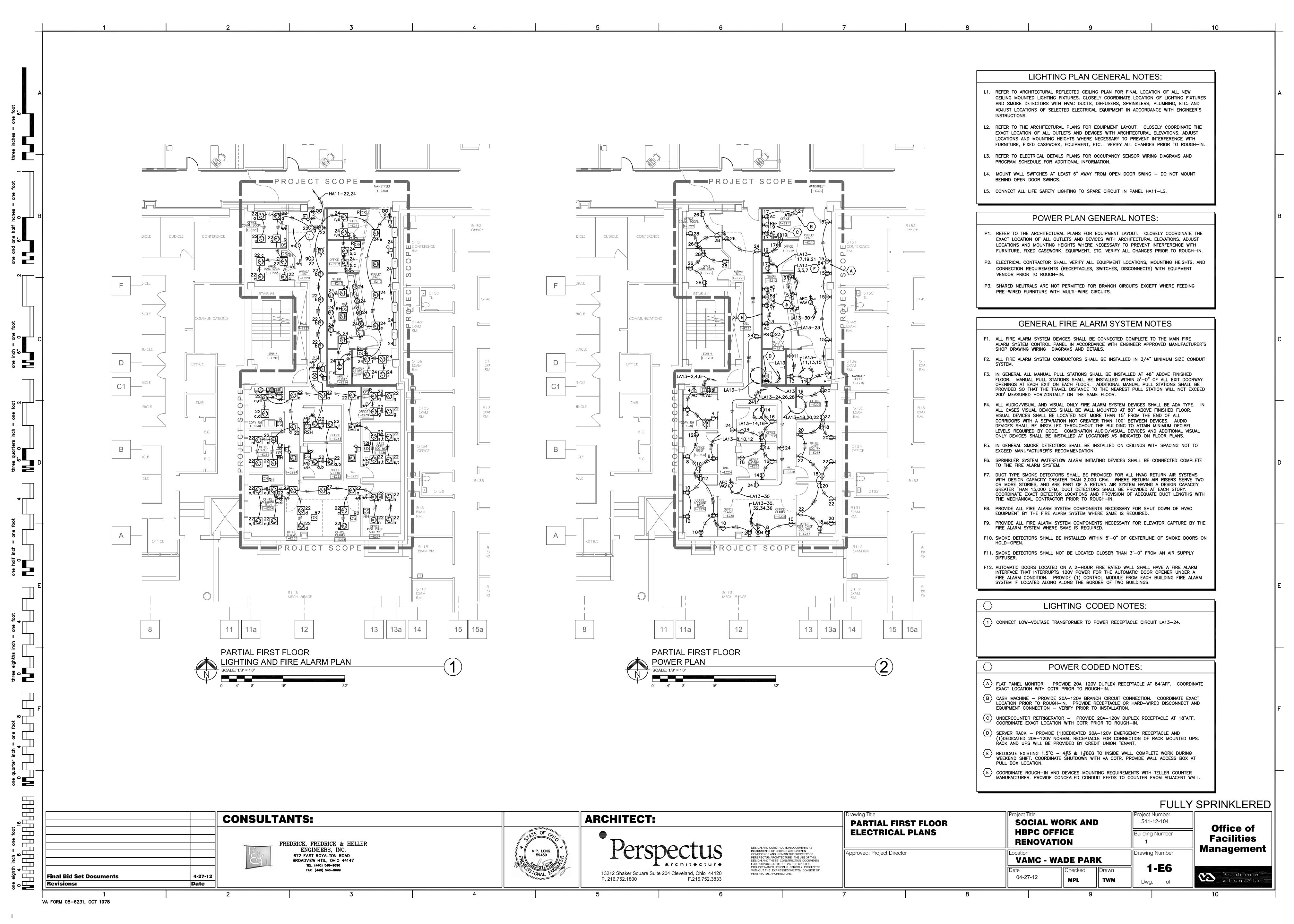
one eighth inch = one foot

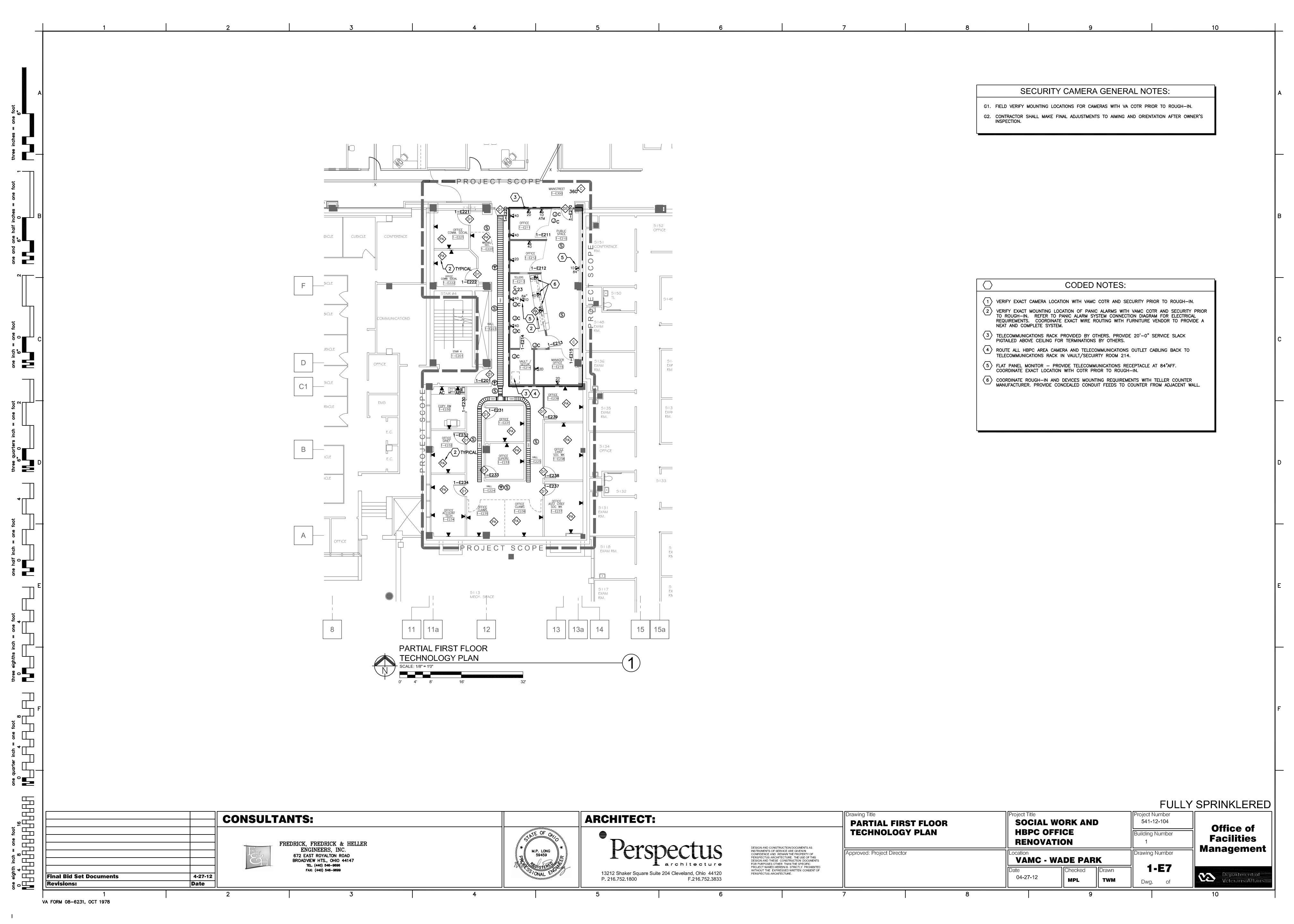
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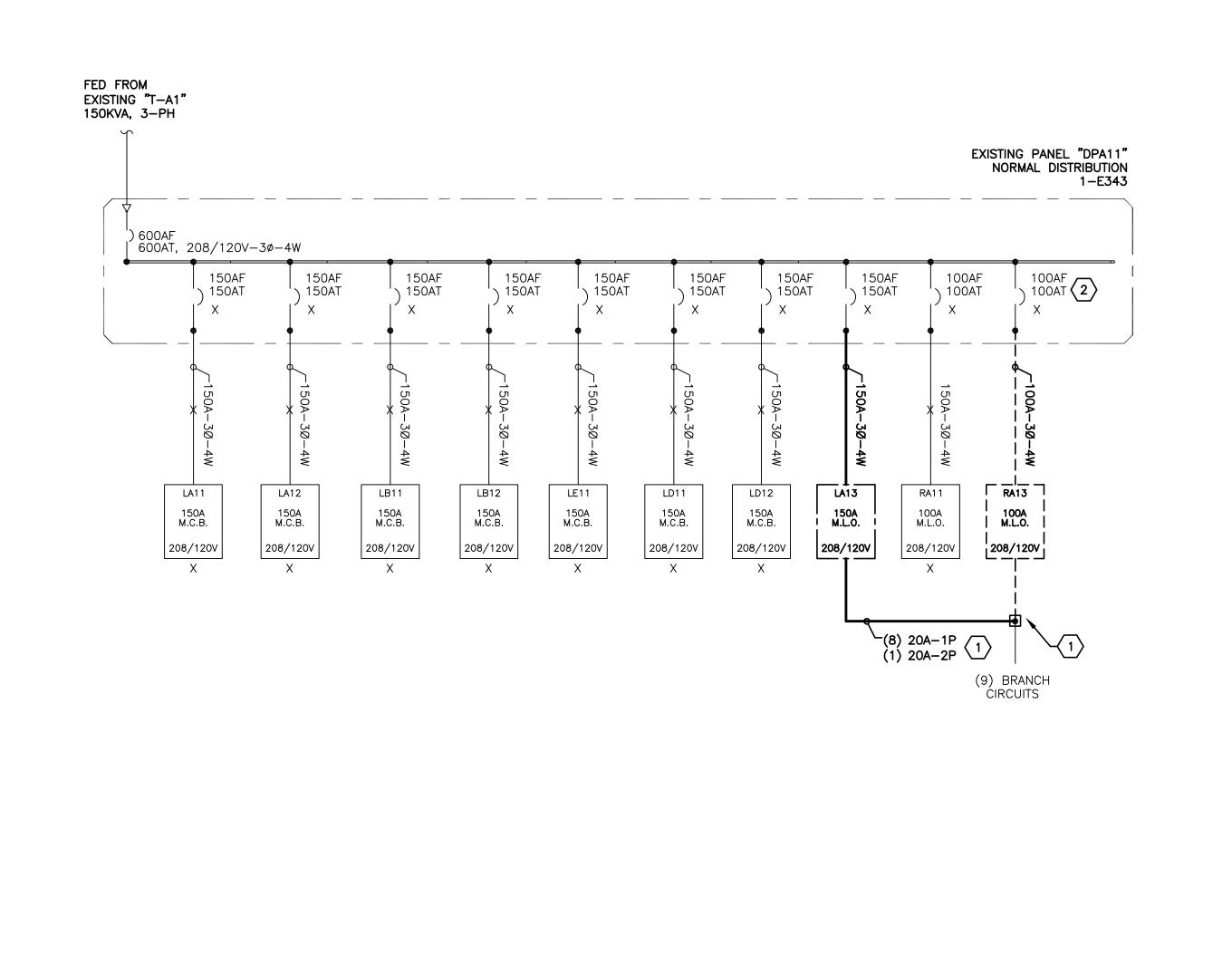
| HITTHEREFIELD

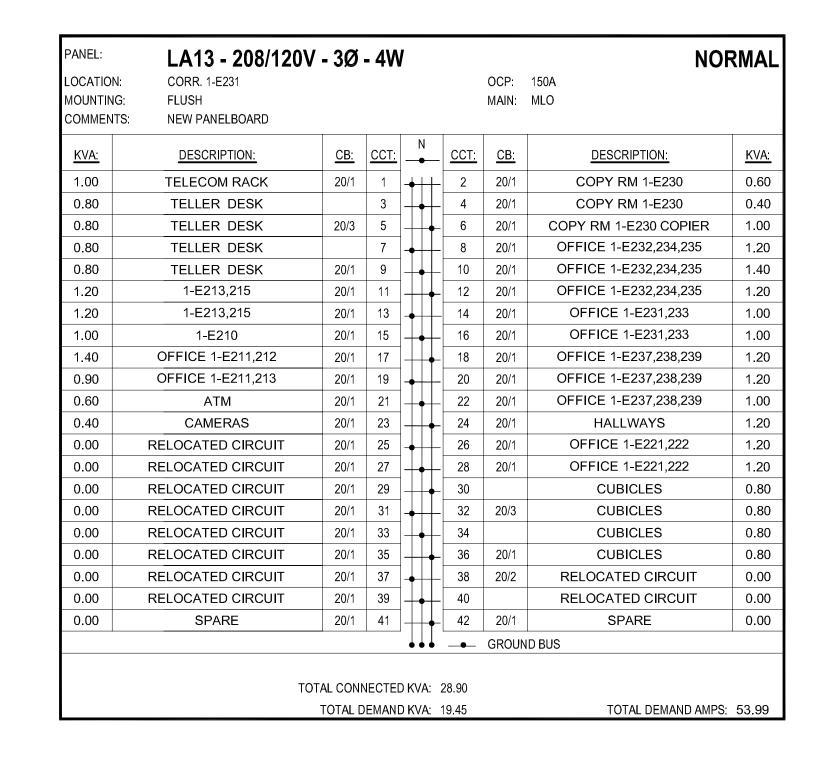


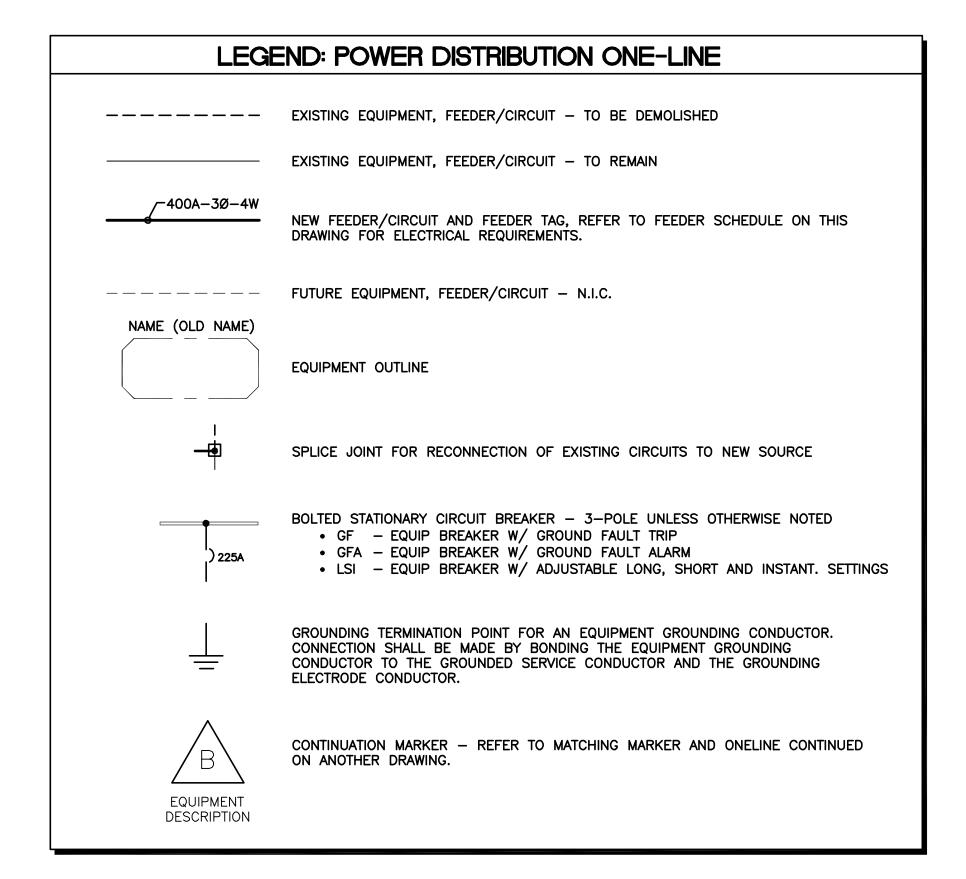












	FEEDER SCHEDULE
ONE-LINE TAG	CONDUIT AND WIRE SIZE
20A-1P	0.75°C - 2 #12 AND 1 #12EG
20A-2P	0.75°C - 2 #12 AND 1 #12EG
150A-3ø-4W	1.5"C - 4 #1/0 AND 1 #6EG

VA FORM 08-6231, OCT 1978

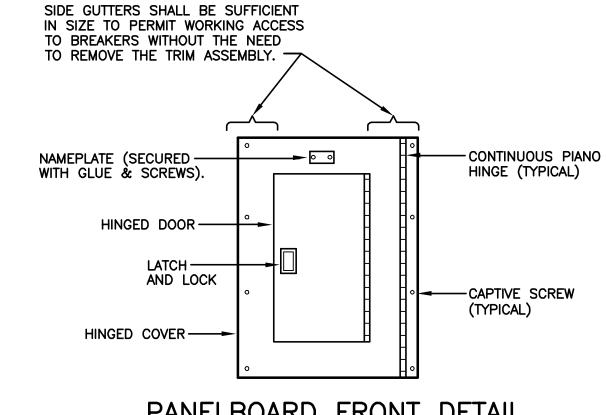
CODED NOTES:					
RELOCATED (9) EXISTING TO REMAIN ACTIVE BRANCH CIRCUITS. SEE "BRANCH CIRCUIT RECONNECTION GENERAL NOTES:" FOR ADDITIONAL WORK REQUIREMENTS.  LABEL BREAKER AS SPARE.					

# BRANCH CIRCUIT RECONNECTION GENERAL NOTES:

TRACE EXISTING CIRCUITS WITH AN ADVANCED WIRE TRACER THAT WORKS WITH ENERGIZED OR DE-ENERGIZED CIRCUITS AND IS CAPABLE OF INJECTING TRACE SIGNAL WITH CLAMP-ON ATTACHMENT FOR NON-CONTACT OPERATION. IN GENERAL, CIRCUITS MUST BE TRACED WHILE ENERGIZED.

A WRITTEN "LOAD IDENTIFICATION" REPORT OF ALL EXISTING CIRCUITS FED FROM THIS PANEL SHALL BE SUBMITTED TO THE C.O.T.R./ENGINEER FOR REVIEW. THE REPORT SHALL INDICATE; SOURCE EQUIPMENT NAME, CIRCUIT NUMBER, CIRCUIT RATING, LOAD DESCRIPTION, LOAD LOCATION, DATE OF TRACE AND INITIAL OF PERSON COMPLETING TRACE.

- 2. PERFORM ALL CUT-OVER WORK OF RECONNECTED BRANCH CIRCUITS DURING VAMC "OFF-HOURS". THIS WORK SHALL BE SCHEDULED WITH THE C.O.T.R. AT LEAST 14 DAYS IN ADVANCE. ALL PREMIUM COST (LABOR, EQUIPMENT RENTALS, ETC) ASSOCIATED WITH PERFORMING THIS WORK DURING SECOND SHIFTS, THIRD SHIFTS OR WEEKENDS SHALL BE INCLUDED IN THE CONTRACTORS BID PRICE.
- 3. THE RECONNECTION OF EACH BRANCH CIRCUIT MUST BE COMPLETED IN 1 HOUR PER CIRCUIT. ONLY ONE CIRCUIT SHALL BE CUT-OVER AT ONCE.
- 4. QUANTITY OF BREAKERS ARE AN APPROXIMATION. CONTRACTOR SHALL FIELD VERIFY EXACT QUANTITY OF BREAKERS PRIOR TO DEMOLITION OF EXISTING PANELBOARD(S). REPORT ANY DISCREPANCIES TO ENGINEER.
- 5. CONTRACTOR SHALL RECONNECT ALL EXISTING (REMAINING) ACTIVE CIRCUITS TO NEW ELECTRICAL DISTRIBUTION. REFER TO "POWER DISTRIBUTION ONE—LINE DIAGRAM" FOR ADDITIONAL INFORMATION.



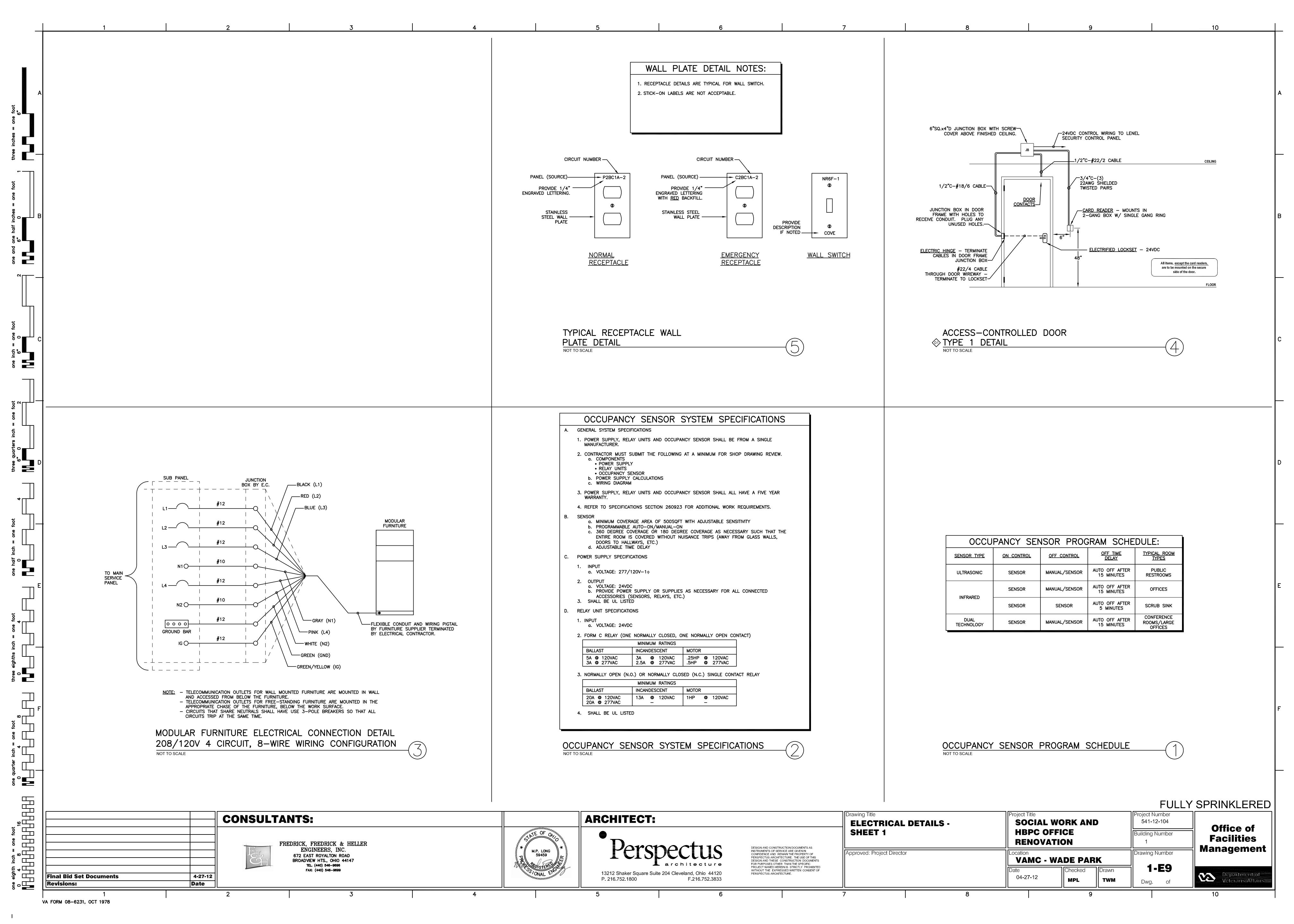
# PANELBOARD FRONT DETAIL NOT TO SCALE

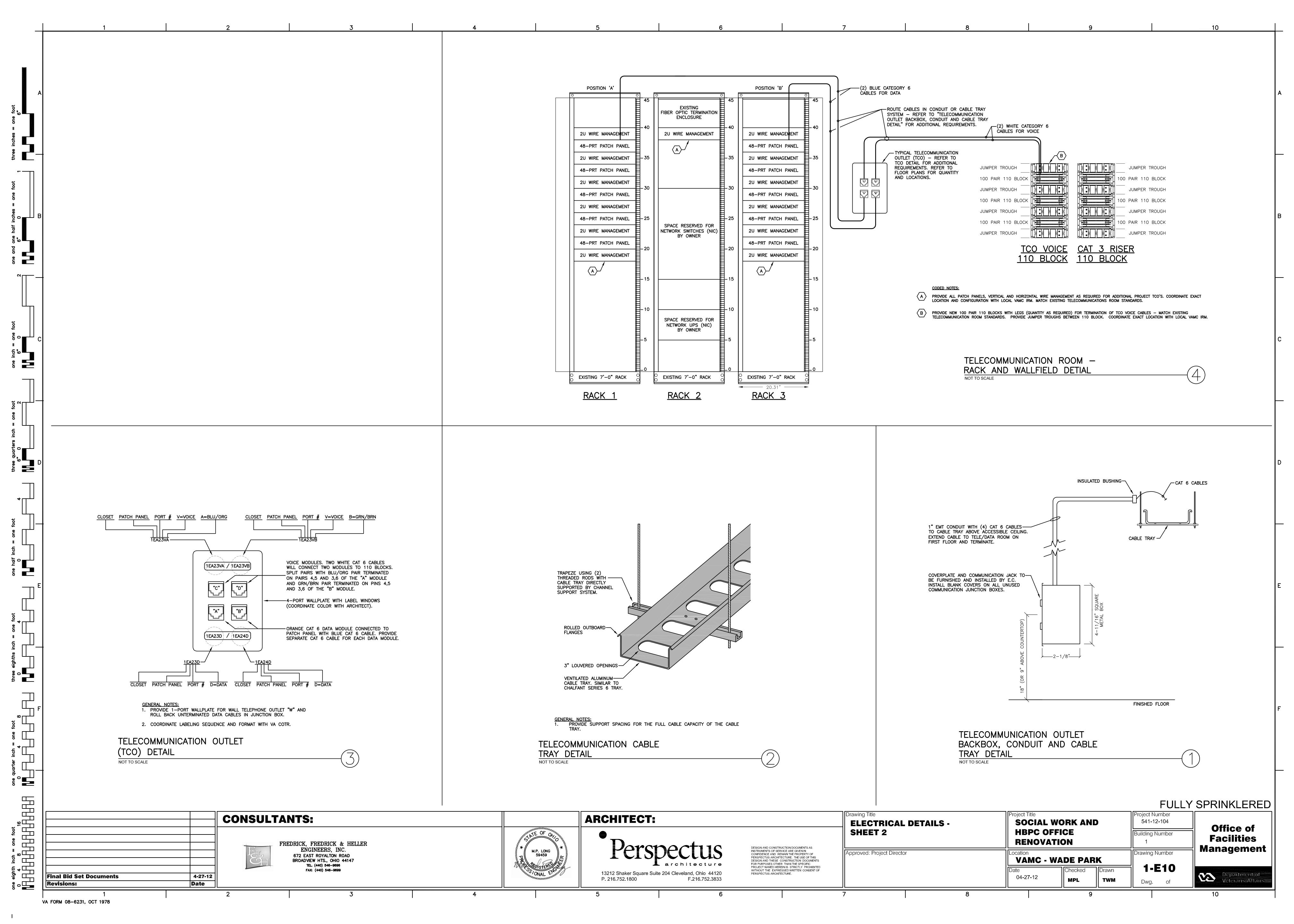
# PANELBOARD CONSTRUCTION NOTES:

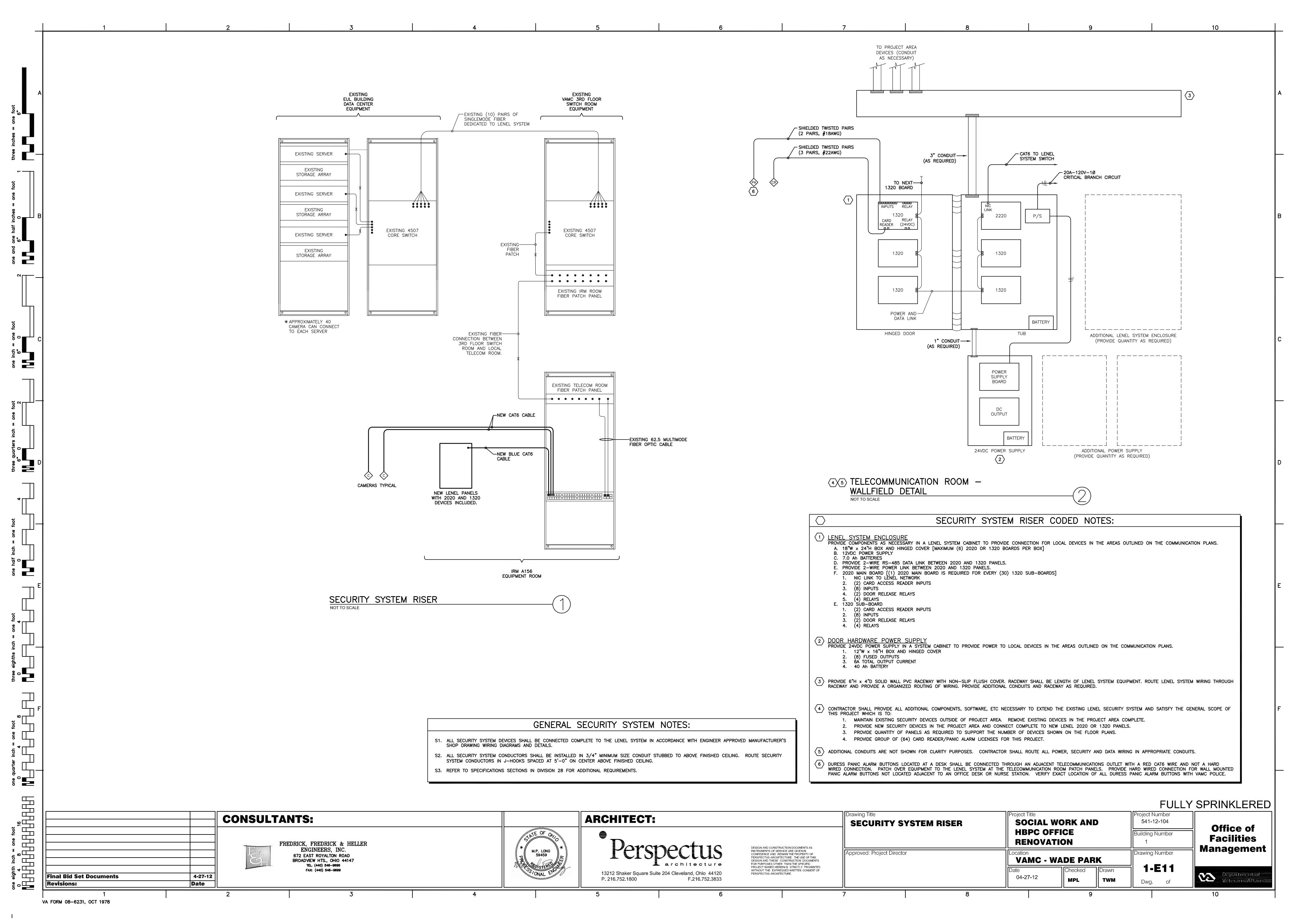
- A ALL NEW PANELBOARDS SHALL BE PROVIDED WITH <u>SUB-FEED LUGS</u>
  AND SUFFICIENT SIZE WIRING GUTTERS TO ACCOMMODATE ALL FEEDERS
  (INCLUDING FUTURE) IN A CODE COMPLYING MANNER. FEED THROUGH LUGS ARE <u>NOT</u> ACCEPTABLE.
- B ALL NAMEPLATES SHALL BE ENGRAVED PHENOLIC WITH WHITE LETTERS AND BLACK (RED FOR EMERGENCY) BACKGROUND. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO SPECIFICATIONS FOR PANELBOARD CONSTRUCTION REQUIREMENTS REGARDING BUS, DIRECTORIES, FINISHES, ETC.
- ONE MONTH AFTER OCCUPANCY BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL MEASURE AND RECORD THE FEEDER PHASE CURRENTS FOR ALL NEW AND EXISTING PANELBOARDS ASSOCIATED WITH THIS PROJECT, AND SHALL SUBMIT DATA TO ENGINEER.
- PROVIDE UPDATED TYPED SCHEDULES IN EXISTING PANELS, AND NEW SCHEDULES IN NEW PANELS. SCHEDULE DESCRIPTIONS SHALL INCLUDE TYPE OF LOAD (RECEPTACLES, LIGHTING, EWC, ETC.) AND ROOM NUMBER WHERE LOAD IS LOCATED.
- F PROVIDE NEW PANEL FRONTS FOR SELECTED EXISTING PANELS AS INDICATED ON PLANS.
- G CIRCUIT ASSIGNMENTS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY AVAILABILITY PRIOR TO ROUGH—IN AND ORDERING ENGRAVED COVERPLATES. REPORT ANY DEVIATIONS TO ENGINEER FOR APPROVAL.

# FULLY SPRINKLERED

Drawing Title roject Title roject Number **CONSULTANTS: ARCHITECT: SOCIAL WORK AND** 541-12-104 **ELECTRICAL DISTRIBUTION** Office of **HBPC OFFICE ONE-LINE AND SCHEDULES Building Number Facilities** RENOVATION FREDRICK, FREDRICK & HELLER Management DESIGN AND CONSTRUCTION DOCUMENTS AS ENGINEERS, INC. INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF Approved: Project Director Drawing Number 672 EAST ROYALTON ROAD **VAMC - WADE PARK** BROADVIEW HTS., OHIO 44147 DESIGN AND THESE CONSTRUCTION DOCUMENTS TEL. (440) 546-9696 1-E8 PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF Checked FAX: (440) 546-9699 13212 Shaker Square Suite 204 Cleveland, Ohio 44120 Department of Veterans Affairs PERSPECTUS ARCHITECTURE. Final Bid Set Documents 4-27-12 04-27-12 P. 216.752.1800 F.216.752.3833 MPL TWM Dwg. Revisions: Date







FIRM A WAITING RM. CUBICLE CUBICLE S144
PAIN
MGMT.
EXAM RM. CUBICLE CUBICLE CUBICLE CUBICLE 0 0 000 CUBICLE CUBICLE S126 O O OFFICE S129 VASCULAR LAB 0 8 SIOIA RECEPTION APPROXIMATE SCALE (MEASUREMENTS IN FEET) FIRST FLOOR- SECTION 13

# NOTES:

- (1) INSTALL CRITICAL
  BARRIERS AND WARNING
  SIGNS (SEE DETAIL SHEET
  1-AA2)
- (2) INSTALL 6 MIL
  POLYETHYLENE DROP CLOTH
  BELOW PIPE INSULATION
  JOINTS TO AT LEAST 6
  FEET HORIZONTAL DISTANCE
  FROM EACH ACM JOINT TO
  BE REMOVED
- (3) INSTALL NEGATIVE AIR
  MACHINE FOR LOCAL
  EXHAUST VENTILATION
  ADJACENT TO WORK AREA
  AND EXHAUST TO OUTSIDE
- (4) REMOVE AND DISPOSE OF APPROXIMATELY 50 EACH ASBESTOS-CONTAINING PIPE INSULATION JOINTS IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 028213.13 OF SPECIFICATIONS
- (5) REMOVE AND DISPOSE OF APPROXIMATELY 2,800 SQ FT OF ASBESTOS- CONTAINING FLOOR MASTIC IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 028213.19 OF SPECIFICATIONS

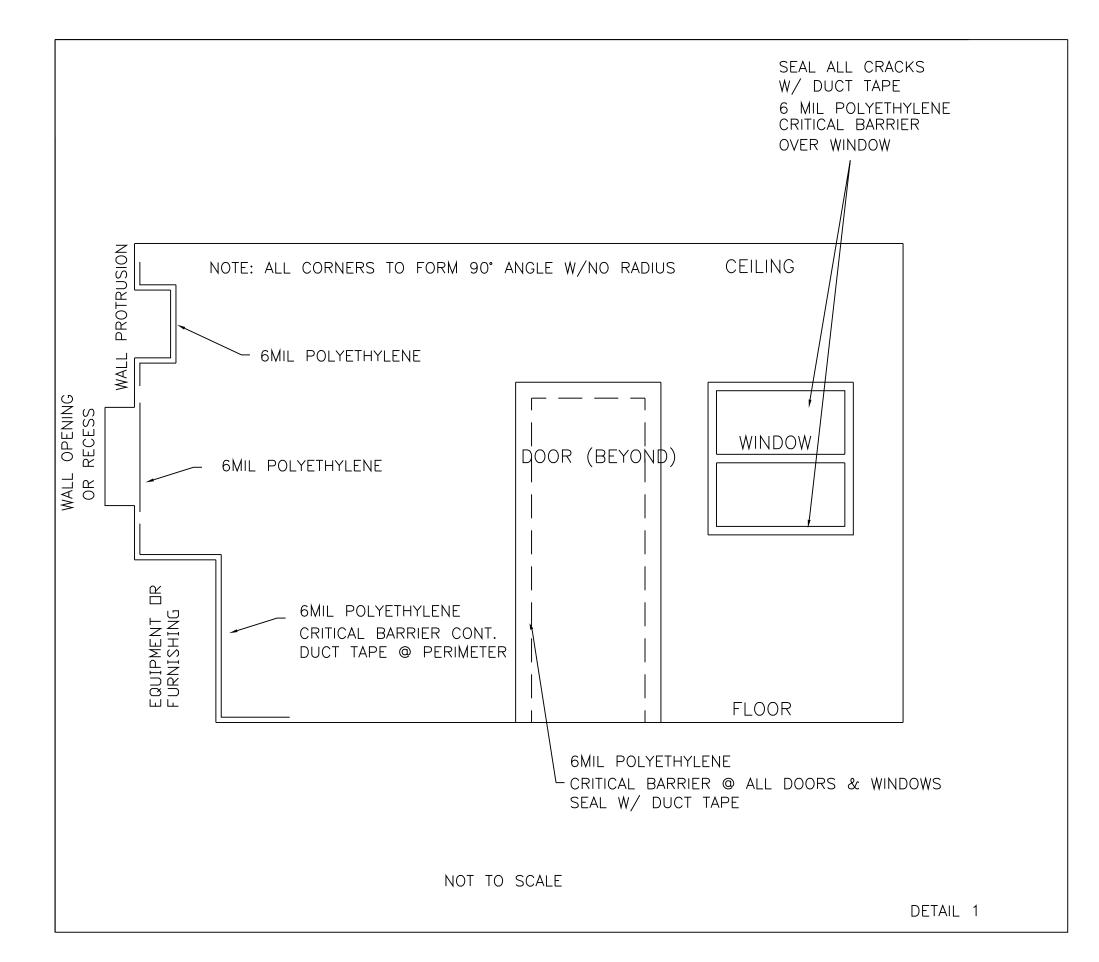
NORTH

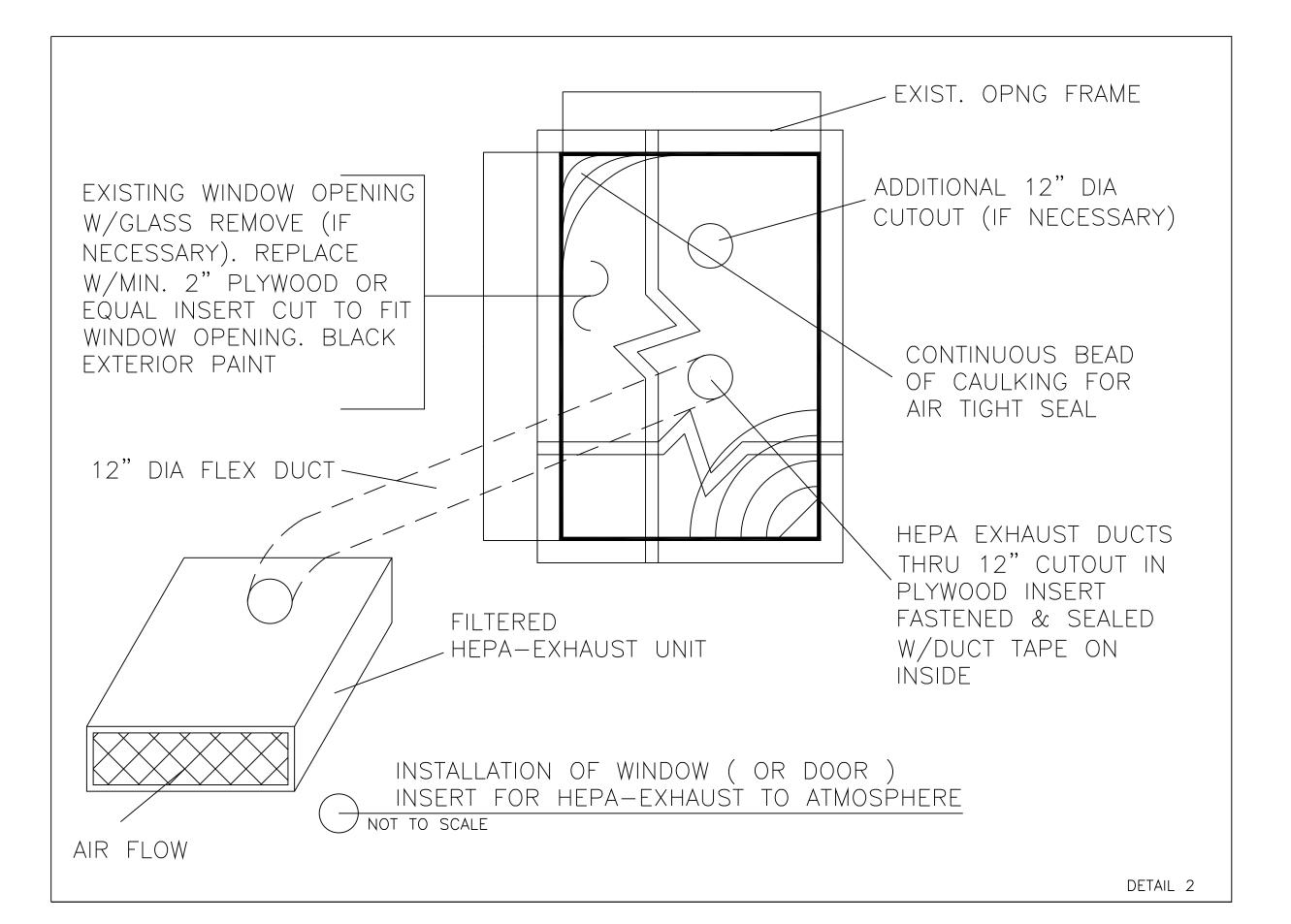
# FULLY SPRINKLERED

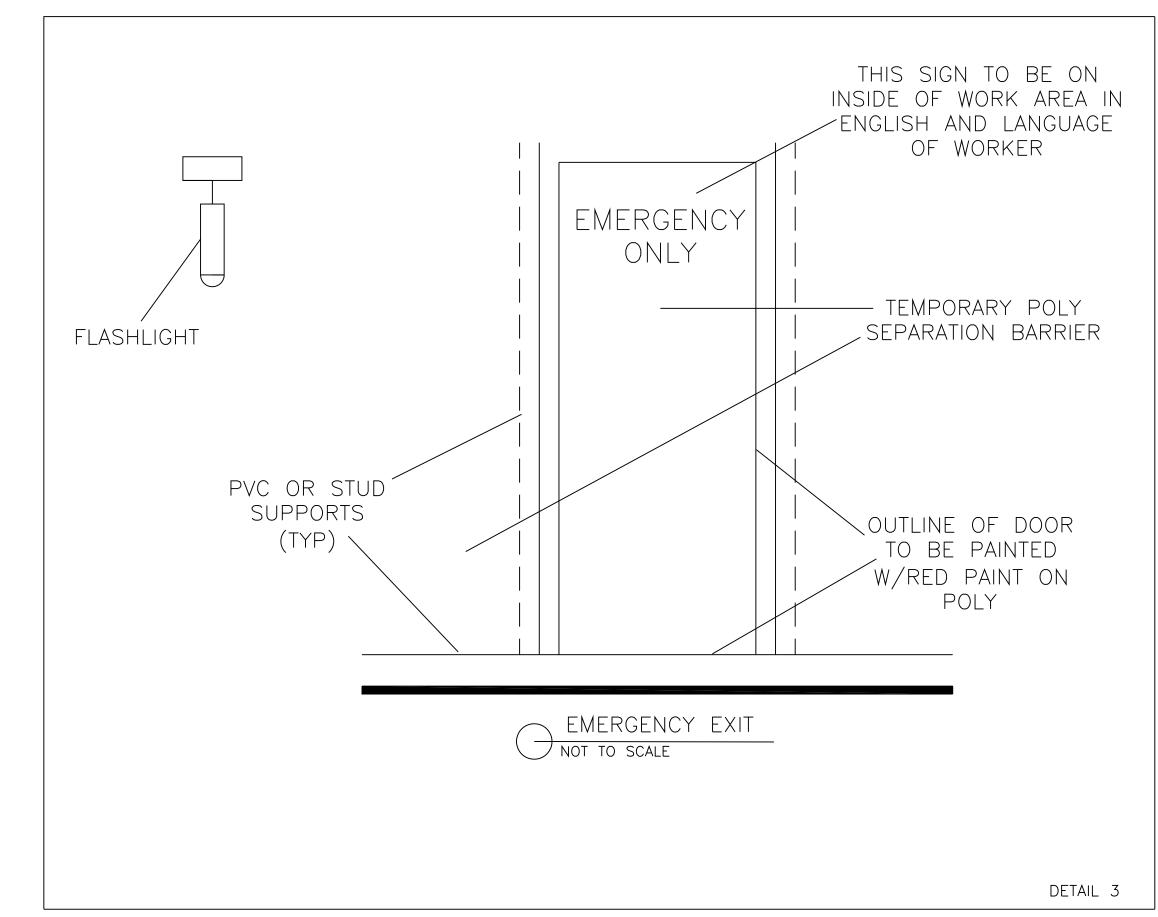
	CONSULTANTS:	ARCHITECT:	Drawing Title  PARTIAL FIRST FLOOR ASBESTOS	Project Title SOCIAL WORK &	Project Number 541-12-104	
	Stephen J. Sebesta & Associates, Inc.		ABATEMENT PLAN	HBPC OFFICE RENOVATION	Building Number  1	Office of Facilities
	Environmental Health Engineers 17830 Englewood Drive, Suite 16, Cleveland, Ohio 44130	WE ER	Approved: Project Director	Location VAMC - WADE PARK	Drawing Number  1-AA1	Management
 Final Bid Set Documents 4-27-12 Revisions: Date	P. 216.781.0060			Date 4-27-12  Checked EMO CAJ	Dwg. 1 of 2	Department of Veterans Affairs

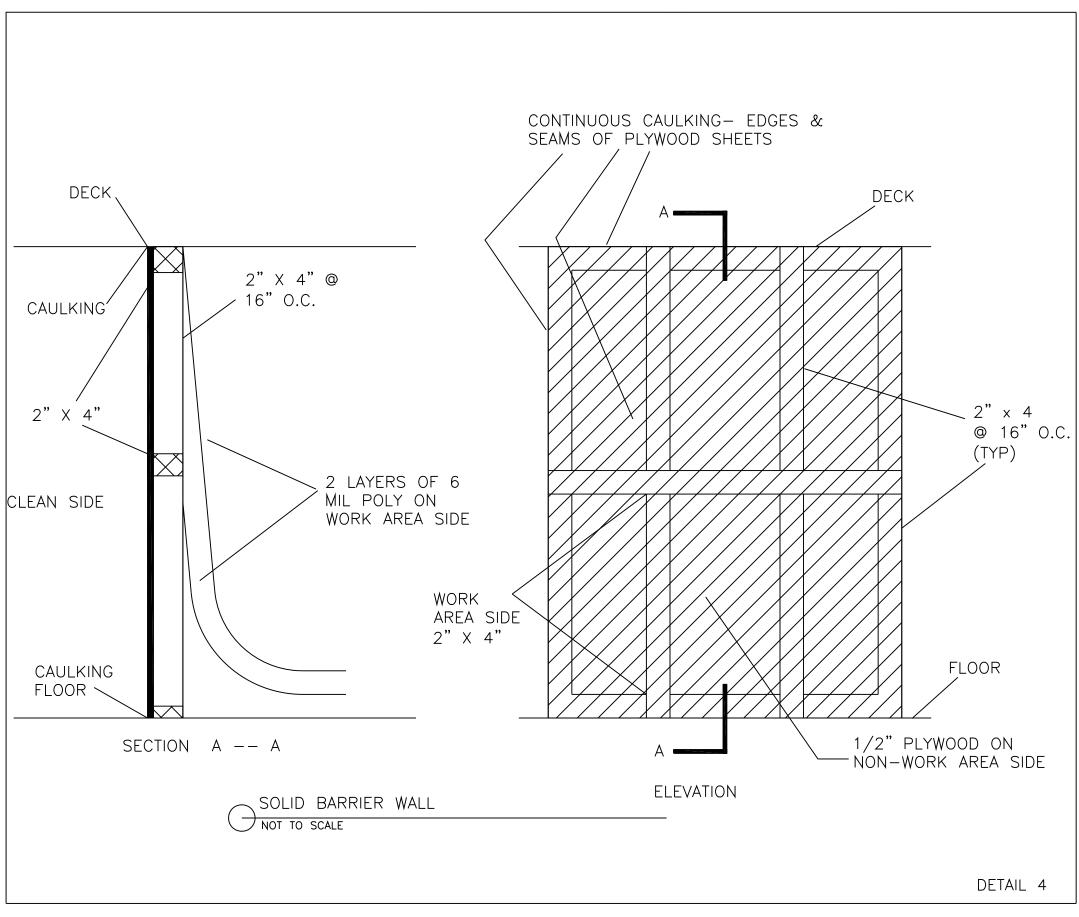
LEGEND

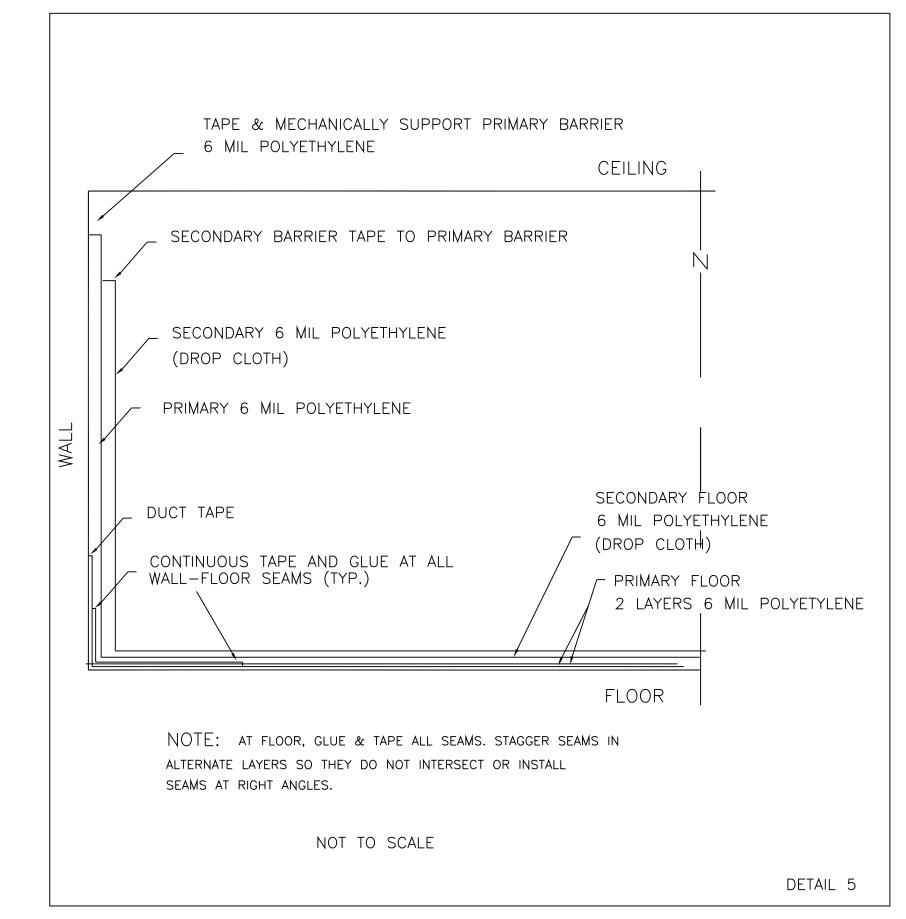
PIPE INSULATION JOINTS AND ACM MASTIC BELOW CARPETING

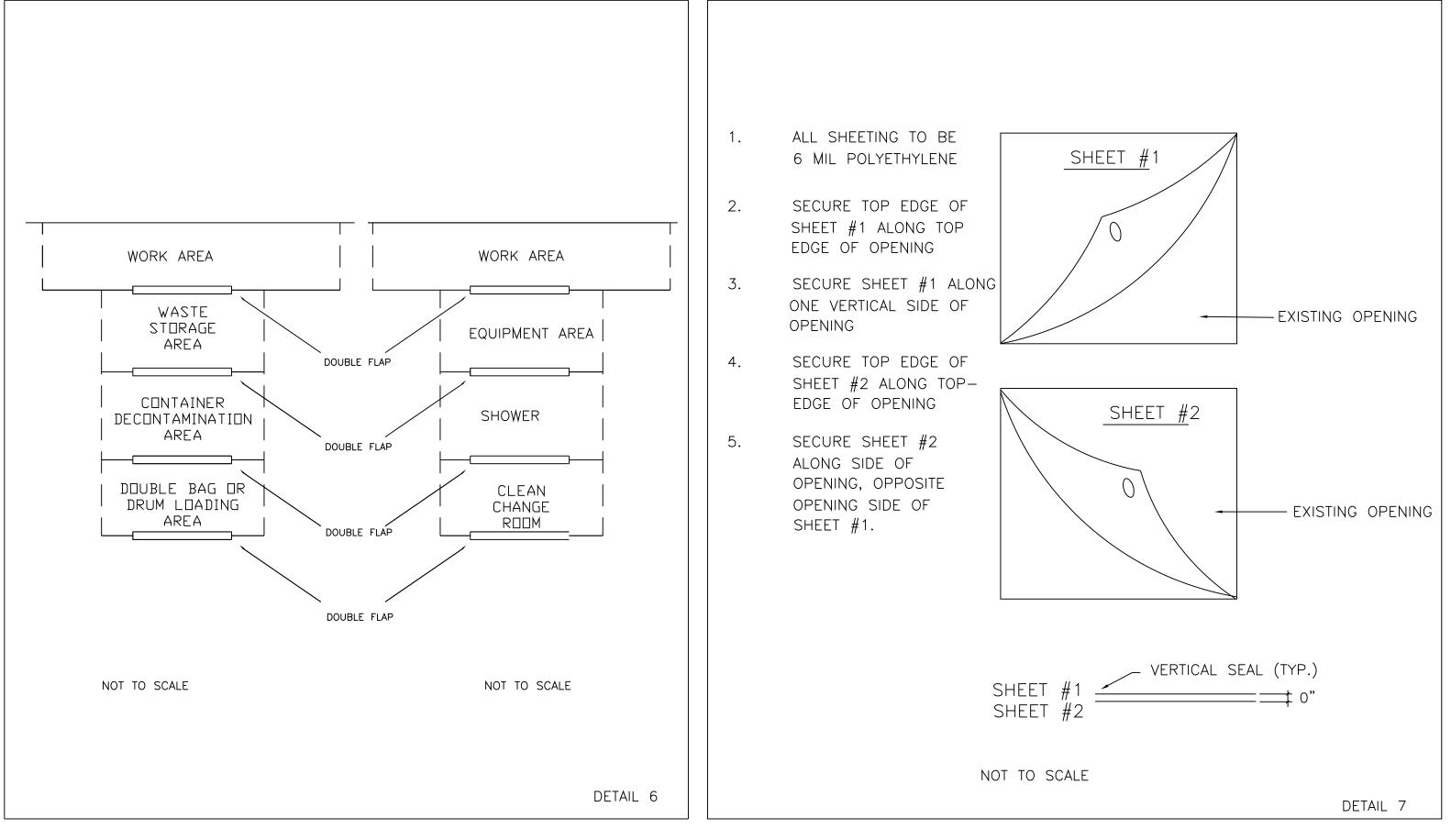












# STANDARD ASBESTOS ABATEMENT DETAILS



# FULLY SPRINKLERED

Drawing Title Project Number **CONSULTANTS: ARCHITECT: SOCIAL WORK &** 541-12-104 STANDARD ASBESTOS ABATEMENT Office of **HBPC OFFICE DETAILS** Building Number **Facilities RENOVATIONS** Stephen J. Sebesta & Associates, Inc. STEPHEN Management Environmental Health Engineers 17830 Englewood Drive, Suite 16, Cleveland, Ohio 44130 P. 216.781.0060 Approved: Project Director Drawing Number SEBESTA **VAMC - WADE PARK** 29515 0 = 0.00 / STERE - 1.1.1 / ONAL **1-AA2** Drawn Checked Department of Veterans Affairs 4-27-12 Final Bid Set Documents 4-27-12 EMO CAJ Dwg. 2 of 2 Date

| VA FORM 08-6231, OCT 1978

one eighth inch = one root

0 4 8 16